Description

4,4-Difluoro-1,2,3,4-tetrahydro-5H-1-benzazepine derivative or salt thereof

Technical Field

This invention relates to a medicament, particularly a novel 4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepine derivative or a salt thereof useful as a therapeutic agent for central diabetes insipidus and nocturia, and a medicament which uses said compound as the active ingredient.

Background of the Invention

Arginine vasopressin (AVP) is a peptide consisting of 9 amino acids which is biosynthesized and secreted in the hypothalamo-pituitary system. The receptor of AVP is classified into three subtypes V_{1a} , V_{1b} and V_2 , and a V_{1a} receptor-mediated constriction action and a V_2 receptor-mediated antidiuretic action are known as the main pharmacological actions of AVP in the peripheral system. As a V_2 receptor-selective agonist, a peptide desmopressin (prepared by deleting amino group of the 1-position cysteine of AVP, and converting the 8-position arginine into d form) has been synthesized and used for the treatment of central diabetes insipidus (Non-patent Reference 1). However, since bioavailability of oral preparations of desmopressin is considerably low, a high dose is necessary for obtaining its effect. Thus, the desmopressin preparations are expensive, and generation of side effects based on the variation of absorption among individuals is observed in some cases. Accordingly, concern has been directed toward the development of a non-peptide antidiuretic agent which selectively stimulates V_2 receptor and has high bioavailability.

On the other hand, accompanied by the diversification of medical treatment and advance of age, single use of a drug became rather rare, and in many cases, two or more

drugs are administered simultaneously or intermittently. This is the same in the field of AVP receptor agonists. Drugs are inactivated and converted into metabolites by undergoing the action of drug metabolizing enzymes, and the most important among these drug metabolizing enzymes is cytochrome P450 (CYP). A large number of molecular species exists in CYP, and when two or more drugs which are metabolized by CYP of the same molecular species compete on the metabolizing enzyme, it is considered that they undergo a certain metabolic inhibition, though it varies depending on the affinity of the drugs for CYP. As a result, increase of blood concentration, prolongation of blood half-life and the like drug interactions are expressed.

Such drug interactions are undesirable actions except for the case in which they are used aiming at the additive action or synergistic action, because they sometimes cause unexpected side effects. Thus, concern has been directed toward the creation of a medicament which has a low affinity for CYP and a small possibility of causing drug interactions.

Up to now, tricyclic compounds represented by a general formula (A), a general formula (B) and a general formula (C) are known as non-peptide compounds which are V₂ receptor-selective agonists and show antidiuretic action (Patent Reference 1, Patent Reference 2, Patent Reference 3).

$$X + \bigcup_{N \to G} D = X + \bigcup_{N \to Z} X + \bigcup_{N \to$$

(See said patent references for signs in the formulae.)

Also, a condensed azepine derivative represented by a general formula (D) is known as a V₂ receptor-selective agonist (Patent Reference 4).

(See said patent reference for signs in the formula.)

In addition, benzazepine derivatives represented by a general formula (E)

(Patent Reference 5, Patent Reference 6) and benzo-hetero ring compounds represented by a general formula (F) or a general formula (G) (Patent Reference 7, Patent Reference 8, Patent Reference 9) are known as V₂ receptor-selective agonists.

(See said patent references for signs in the formulae.)

However, there is no description in any of these patent references regarding the 4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepine derivative of the invention.

Also, though 4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepine derivative having antagonism for the AVP receptor or oxytocin receptor are known, nothing is known about their relation to V₂ receptor agonistic action, central diabetes insipidus and nocturia (Patent Reference 10, Patent Reference 11, Patent Reference 12). In this connection, Patent Reference 10 and Patent Reference 12 does not disclose the 4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepine derivative of the invention in which CF₃

or halogen is substituted to the 2-position benzoyl substituting on the 1-position of benzazepine. In addition, Patent Reference 11 discloses only a compound in which an aromatic ring is directly bonded to a heteroaryl group bonding to the carbonyl substituting on the 1-position of benzazepine, but does not disclose the 4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepine derivative of the invention in which the ring bonding to the carbonyl substituting on the 1-position of benzazepine has -O-, -S-, -NH- or a substituent group containing -N(lower alkyl)-.

Under such a situation, great concern has been directed toward the development of a non-peptide antidiuretic agent having high bioavailability, for the purpose of treating central diabetes insipidus and/or nocturia.

[Non-patent Reference 1] Journal of Japan Endocrine Society, 54, 676 – 691, 1978

[Patent Reference 1] International Publication No. 99/06409

[Patent Reference 2] International Publication No. 99/06403

[Patent Reference 3] International Publication No. 00/46224

[Patent Reference 4] International Publication No. 01/49682

[Patent Reference 5] International Publication No. 97/22591

[Patent Reference 6] Japanese Patent No. 2926335

[Patent Reference 7] Japanese Patent No. 3215910

[Patent Reference 8] Japanese Patent publication JP-A-11-349570

[Patent Reference 9] Japanese Patent publication JP-A-2000-351768

[Patent Reference 10] International Publication No. 95/06035

[Patent Reference 11] International Publication No. 98/39325

[Patent Reference 12] Japanese Patent publication JP-A-9-221475

Disclosure of the Invention

The present inventors have conducted intensive studies on a compound having V₂ receptor agonistic action, from which effectiveness for central diabetes insipidus and/or nocturia can be expected, and found that a novel 4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepine derivative has excellent said effect, thereby accomplishing the invention. In addition, it was found that the compound of the invention has markedly low inhibitory activity upon drug metabolizing enzymes CYP3A4 and CYP2C9 in comparison with conventionally known benzazepine derivatives having V₂ receptor agonistic action.

That is, according to the invention, there are provided a novel 4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepine derivative represented by the following general formula (I) or a pharmaceutically acceptable salt thereof which is useful as a therapeutic agent for central diabetes insipidus and/or nocturia; and a medicament which uses any one of these compounds as an active ingredient; particularly the aforementioned medicament which is an arginine vasopressin V₂ receptor agonist; and the aforementioned medicament which is a nocturia treating agent or a central diabetes insipidus treating agent.

$$R^3$$
 R^3
 R^3

[Signals in the formula mean as follows

R¹: amino which may be substituted, -OH or -O-lower alkyl,

R²: CF₃ or halogen,

R³: H or halogen,

a, b: each represents single bond or double bond, wherein one is single bond and the other is double bond,

-X-:

- (1) -CH=CH-, -CH=N-, -N=CH-, -N=N- or -S- when a is single bond and b is double bond,
 - (2) –N- when a is double bond and b is single bond,

Y:

- (1) CH or N when a is single bond and b is double bond,
- (2) S when a is double bond and b is single bond,

-A-: -O-, -S-, -NH- or -N(lower alkyl), and

B: lower alkyl, lower alkenyl, lower alkynyl, cycloalkyl or aryl, each of which may be substituted.]

The compound of the invention has a chemical structural characteristic in which it has difluoro group on the ring carbon atom adjacent to the benzazepine ring carbon atom where a substituted methylidene group is substituted, which is completely different from the structures of conventionally known V₂ receptor-selective agonists. In this connection, since the compound of the invention has difluoro group, the double bond conjugated to carbonyl group is not isomerized, so that it has sufficient stability within an organism.

Among these compounds, preferred are novel 4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepine derivatives represented by the aforementioned general formula (I) in which R¹ is a group represented by a formula (II), a formula (III), -OH or -O-lower

alkyl, or pharmaceutically acceptable salts thereof, and preferred among them is a novel 4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepine derivatives represented by the aforementioned general formula (I) in which R¹ is a group represented by the formula (II) or the formula (III), or a pharmaceutically acceptable salt thereof.

$$-N^{Z_{-R}^{12}}$$
 $-N^{R_{-R}^{14}}$ $-N^{R_{-R}^$

[Signs in the formulae mean as follows

Z¹: single bond, lower alkylene or –lower alkylene-C(=O)-,

R¹¹: lower alkyl which may be substituted with a group selected from the group consisting of -OH, -O-lower alkyl, -CO₂H, -CO₂-lower alkyl and carbamoyl which may be substituted with one or two lower alkyls, or -H, R¹²:

- (1) when Z¹ represents single bond or lower alkylene,
 -H, -OH, -O-lower alkyl, -CO₂H, -CO₂-lower alkyl, carbamoyl which may be
 substituted with one or two lower alkyls, aryl which may be substituted, cycloalkyl
 which may be substituted, aromatic hetero ring which may be substituted or nonaromatic hetero ring which may be substituted,
- (2) when Z¹ represents –lower alkylene-C(=O)-, a group represented by the formula (III) or a formula (IV)

$$-N^{R^{14}}$$
 $-N^{Z^{2}-R^{15}}$ R^{13} (III) R^{11} (IV)

[signs in the formula mean as follows

Z²: single bond or lower alkylene, and

R¹⁵: -H, -OH, -O-lower alkyl, -CO₂H, -CO₂-lower alkyl, carbamoyl which may be substituted with one or two lower alkyl, aryl which may be substituted, cycloalkyl which may be substituted, aromatic hetero ring which may be substituted or non-aromatic hetero ring which may be substituted,

R¹³, R¹⁴: together with the adjacent nitrogen atom, non-aromatic cyclic amino group.]

More desirable is a novel 4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepine derivative represented by the aforementioned general formula (I), wherein R¹ is a group represented by the formula (II) or formula (III); a is single bond; b is double bond; -X-is -CH=CH-; and -Y- is

-CH-, or a pharmaceutically acceptable salt thereof.

Further desirable is a novel 4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepine derivative represented by the aforementioned general formula (I), wherein R¹ is a group represented by the formula (II); a is single bond; b is double bond; -X- is -CH=CH-; and -Y- is -CH-, or a pharmaceutically acceptable salt thereof.

Particularly desirable is a novel 4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepine derivative represented by the aforementioned general formula (I), wherein R¹ is a group represented by the formula (II); a is single bond; b is double bond; -X- is -CH=CH-; -Y- is -CH-; and -A- is -O-, or a pharmaceutically acceptable salt thereof.

Most desirable is a novel 4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepine derivative represented by the aforementioned general formula (I), wherein R¹ is a group represented by the formula (II); a is single bond; b is double bond; -X- is -CH=CH-; -Y- is -CH-, -A- is -O-; and

-B is lower alkyl which may be substituted, or a pharmaceutically acceptable salt thereof.

Among them, a novel 4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepine derivative wherein R² is trifluoromethyl; and R³ is -H or -F, or a pharmaceutically acceptable salt thereof, is particularly desirable.

Particularly desirable compounds among these compounds are compounds selected from the group consisting of a compound group P and a compound group Q, or pharmaceutically acceptable salts thereof, and preferred among them are compounds selected from the compound group P, or pharmaceutically acceptable salts thereof.

In this case, the "compound group P" is a group consisting of

(2Z)-N-(2-amino-2-oxoethyl)-2-{4,4,7-trifluoro-1-[4-{[(2R)-2-

fluoropropyl]oxy}-2-(trifluoromethyl)benzoyl]-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene}acetamide,

(2Z)-N-(2-hydroxyethyl)-2-{4,4,7-trifluoro-1-[4-{[(2S)-2-fluoropropyl]oxy}-2-(trifluoromethyl)benzoyl]-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene}acetamide,

(2Z)-N-(2-hydroxyethyl)-2-{4,4,7-trifluoro-1-[4-{[(2R)-2-fluoropropyl]oxy}-2-(trifluoromethyl)benzoyl]-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene}acetamide,

(2Z)-2-{4,4-difluoro-1-[4-{[(2R)-2-fluoropropyl]oxy}-2-(trifluoromethyl)benzoyl]-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene}-N-[(2S)-2,3-dihydroxypropyl]acetamide,

3-[((2Z)-2-{4,4,7-trifluoro-1-[4-{[(2R)-2-fluoropropyl]oxy}-2-(trifluoromethyl)benzoyl]-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene}acetyl)amino]propanamide, and

(2Z)-N-[(2R)-2,3-dihydroxypropyl]-2-{4,4,7-trifluoro-1-[4-{[(2R)-2-fluoropropyl]oxy}-2-(trifluoromethyl)benzoyl]-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene}acetamide, and the "compound group Q" is a group consisting of

(2Z)-N-(2-amino-2-oxoethyl)-2-{4,4,7-trifluoro-1-[4-{[(2S)-2-fluoropropyl]oxy}-2-(trifluoromethyl)benzoyl]-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene}acetamide,

(2Z)-2-{1-[4-(2,2-difluoropropoxy)-2-(trifluoromethyl)benzoyl]-4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene}-N-(2-hydroxyethyl)acetamide,

(2Z)-2-{4,4-difluoro-1-[4-{[(2S)-2-fluoropropyl]oxy}-2-(trifluoromethyl)benzoyl]-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene}-N-(2-hydroxyethyl)acetamide,

 $(2Z)-2-\{4,4-difluoro-1-[4-\{[(2R)-2-fluoropropyl]oxy\}-2-\\ (trifluoromethyl)benzoyl]-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene\}-N-(2-hydroxyethyl)acetamide,$

(2Z)-2-{1-[4-(2,2-difluoropropoxy)-2-(trifluoromethyl)benzoyl]-4,4,7-trifluoro-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene}-N-(2-hydroxyethyl)acetamide,

(2Z)-N-[(2R)-2,3-dihydroxypropyl]-2-{4,4,7-trifluoro-1-[4-propoxy-2-(trifluoromethyl)benzoyl]-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene}acetamide,

(2Z)-2-{4,4-difluoro-1-[4-{[(2S)-2-fluoropropyl]oxy}-2-(trifluoromethyl)benzoyl]-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene}-N-[(2S)-2,3-dihydroxypropyl]acetamide,

(2Z)-2-{4,4-difluoro-1-[4-{[(2R)-2-fluoropropyl]oxy}-2-(trifluoromethyl)benzoyl]-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene}-N-[(2R)-2,3-dihydroxypropyl]acetamide,

 $3\hbox{-}[((2Z)\hbox{-}2\hbox{-}\{4,4,7\hbox{-}trifluoro\hbox{-}1\hbox{-}[4\hbox{-}\{[(2S)\hbox{-}2\hbox{-}$

fluoropropyl]oxy}-2-(trifluoromethyl)benzoyl]-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene}acetyl)amino]propanamide,

(2Z)-N-[(2R)-2,3-dihydroxypropyl]-2-{4,4,7-trifluoro-1-[4-{[(2S)-2-fluoropropyl]oxy}-2-(trifluoromethyl)benzoyl]-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene}acetamide,

3-[((2Z)-2-{1-[4-(2,2-difluoropropoxy)-2-(trifluoromethyl)benzoyl]-4,4,7-trifluoro-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene}acetyl)amino]propanamide,

(2Z)-2-{4,4-difluoro-1-[4-propoxy-2-(trifluoromethyl)benzoyl]-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene}-N-[(2R)-2,3-dihydroxypropyl]acetamide, and

(2Z)-2-{4,4-difluoro-1-[4-propoxy-2-(trifluoromethyl)benzoyl]-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene}-N-[(2S)-2,3-dihydroxypropyl]acetamide.

In this connection, regarding R¹, the group represented by the aforementioned formula (II) or the aforementioned formula (III) is desirable; the group represented by the aforementioned formula (II), wherein Z¹ is single bond, R¹² is -H and R¹¹ is lower alkyl which may be substituted, is further desirable; and the group represented by the aforementioned formula (II), wherein Z¹ is single bond, R¹² is -H and R¹¹ is lower alkyl which may be substituted with one or more substituent groups selected from a group consisting of -OH and carbamoyl, is particularly desirable.

Also, regarding R², trifluoromethyl or chloro is desirable; and trifluoromethyl is particularly desirable.

Also, regarding R³, -H or fluoro is desirable; and -H or 7-fluoro is particularly desirable.

Also, regarding a, b, -X- and -Y-, it is desirable that a is single bond, b is double bond, -X- is -CH=CH-, and -Y- is -CH-.

Also, -O- is desirable as -A-.

In addition, regarding –B, lower alkyl which may be substituted is desirable; and lower alkyl which may be substituted with F is particularly desirable.

The following further describes the compound of the invention.

In this description, the "lower alkyl" means a monovalent group of straight or branched C_{1-6} carbon chain, and its illustrative examples include methyl, ethyl, propyl, butyl, pentyl and hexyl, and isopropyl, tert-butyl and the like structural isomers thereof, preferably a C_{1-4} alkyl methyl, ethyl, propyl, butyl and isobutyl.

The "lower alkylene" means a divalent group of straight or branched C₁₋₆ carbon chain, and its illustrative examples include methylene, ethylene, trimethylene, methylene, dimethylene and the like.

The "lower alkenyl" means a monovalent group of straight or branched C₂₋₆ carbon chain having at least one double bond, and its illustrative examples include vinyl, allyl, 1-butenyl, 2-butenyl, 1-hexenyl, and 3-hexenyl, 2-methylallyl and the like structural isomers thereof, of which allyl and 2-methyl-1-propen-3-yl are preferable.

The "lower alkynyl" means a monovalent group of straight or branched C₂₋₆ carbon chain having at least one triple bond, and its illustrative examples include ethynyl, propargyl, 1-butynyl, 3-butynyl, 1-hexynyl, and 3-hexynyl, 3-methyl-1-butynyl and the like structural isomers thereof, of which propargyl and 1-butyn-4-yl are preferred.

The "cycloalkenyl" means a monovalent group of C_{3-8} non-aromatic hydrocarbon ring which may partially have a unsaturated bond, and its illustrative examples include cyclopropyl, cyclopentyl, cyclohexyl, cyclooctyl, cyclohexenyl, cyclooctanedienyl and the like.

The "aryl" means a monovalent group of monocyclic to tricyclic C_{6-14} aromatic hydrocarbon ring, and its illustrative examples include phenyl, naphthyl and the like, of which phenyl is preferably.

The "aromatic hetero ring" means a monovalent group of monocyclic to tricyclic aromatic ring having hetero atom(s) such as nitrogen, oxygen, sulfur or the like, and its illustrative examples include pyridyl, thienyl, furyl, pyrazinyl, pyridazinyl, thiazolyl, pyrimidinyl, pyrazolyl, pyrrolyl, oxazolyl, isothiazolyl, isooxazolyl, imidazolyl and the like, of which pyridyl is preferred.

The "non-aromatic hetero ring" means a monovalent group of 5- to 7membered ring having hetero atom(s) such as nitrogen, oxygen, sulfur or the like, which
may partially have an unsaturated bond and may be condensed with aryl or aromatic
hetero ring, and its illustrative examples include pyrrolidinyl, imidazolidinyl,
piperidinyl, piperazinyl, azepinyl, morphonyl, thiomorphonyl, tetrahydrofuryl,

tetrahydrothienyl and the like, of which pyrrolidinyl, piperidinyl and morphonyl are preferable.

The "non-aromatic cyclic amino group" means a monovalent group of 3- to 10-membered non-aromatic cyclic amine, preferably 5- to 7-membered non-aromatic cyclic amine, having nitrogen, oxygen or sulfur, which may partially have an unsaturated bond, and its illustrative examples include pyrrolidinyl, piperidinyl, azepinyl, morphonyl, thiomorphonyl, piperazinyl, pyrazolidinyl, dihydropyrrolyl and the like, of which pyrrolidinyl, piperidinyl, piperazinyl and morphonyl are preferred.

The "halogen" means a monovalent group of halogen atom, and its illustrative examples include fluoro, chloro, bromo, iodo and the like.

According to this description, the acceptable substituent group regarding the term "which may be substituted" may be any substituent group which is generally used as the substituent group of respective group, and each group may have one or more substituent groups.

Regarding the "amino which may be substituted" in R¹, the groups represented by the aforementioned general formulae (II) and (III) can be illustratively exemplified.

The groups shown by the following (a) to (h) can be exemplified as acceptable substituted groups of "cycloalkyl which may be substituted" and "aryl which may be substituted" in B; "aryl which may be substituted", "cycloalkyl which may be substituted", "aromatic hetero ring which may be substituted" and "non-aromatic hetero ring which may be substituted" in R¹² and R¹⁵; and "non-aromatic amino group which may be substituted" in R¹³ and R¹⁴. In this connection, R² represents a lower alkyl which may be substituted with one or more groups selected from the class consisting of –OH, -O-lower alkyl, amino which may be substituted with 1 or 2 lower alkyl, carbamoyl which may be substituted with 1 or 2 lower alkyl, aromatic hetero ring and halogen.

(a) Halogen;

- (b) -OH, $-O-R^2$, -O-aryl, $-OCO-R^2$, oxo (=O);
- (c) -SH, -S-R^Z, -S-aryl, -SO-R^Z,-SO-aryl, -SO₂-R^Z, -SO₂-aryl, sulfamoyl which may be substituted with 1 or 2 R^Z;
- (d) amino which may be substituted with 1 or 2 R^Z, -NHCO-R^Z, -NHCO-aryl, -NHSO₂-R^Z, -NHSO₂-aryl, nitro;
- (e) -CHO, -CO-R^Z, -CO₂H, -CO₂-R^Z, carbamoyl which may be substituted with 1 or 2 R^Z, cyano;
- (f) aryl or cycloalkyl which may be respectively substituted with one or more groups selected from the class consisting of –OH, -O-lower alkyl, amino which may be substituted with 1 or 2 lower alkyl, carbamoyl which may be substituted with 1 or 2 lower alkyl, aryl, aromatic hetero ring, halogen and R^Z;
- (g) aromatic hetero ring or non-aromatic hetero ring which may be respectively substituted with one or more groups selected from the class consisting of –OH, -O-lower alkyl, amino which may be substituted with 1 or 2 lower alkyl, carbamoyl which may be substituted with 1 or 2 lower alkyl, aryl, aromatic hetero ring, halogen and R²; and
- (h) lower alkyl or lower alkenyl which may be respectively substituted with one or more groups selected from the substituent groups shown in the aforementioned (a) to (g).

The groups shown in the aforementioned (a) to (g) can be exemplified as the acceptable substituent groups of "lower alkyl which may be substituted", "lower alkenyl which may be substituted" and "lower alkynyl which may be substituted" in B.

Depending on the kind of substituent groups, compounds of the invention represented by the general formula (I) sometimes contain asymmetric carbon atom, and optical isomers based thereon can be present therein. All of the mixtures and isolates of these optical isomers are included in the invention. Also, tautomers are present in the compounds of the invention in some cases, and isolates or mixtures of these isomers are included in the invention.

Also, the compounds of the invention sometimes form salts, and such salts are included in the invention with the proviso that they are pharmaceutically acceptable Their illustrative examples include acid addition salts with hydrochloric acid, salts. hydrobromic acid, hydroiodic acid, sulfuric acid, nitric acid phosphoric acid and the like inorganic acids or with formic acid, acetic acid, propionic acid, oxalic acid, malonic acid, succinic acid, fumaric acid, maleic acid, lactic acid, malic acid, tartaric acid, citric acid, methanesulfonic acid, ethanesulfonic acid, p-toluenesulfonic acid, aspartic acid, glutamic acid and the like organic acids, salts with inorganic bases including sodium, potassium, calcium, magnesium and the like metals or with methylamine, ethylamine, ethanolamine, lysine, ornithine and the like organic bases, ammonium salts and the like. In addition, various hydrates, solvates and substances having polymorphism of the compounds of the invention and pharmaceutically acceptable salts thereof are also included in the invention. In this connection, all of the compounds which are converted into compounds having the aforementioned general formula (I) or salts thereof by undergoing metabolism in the living body, so-called prodrugs, are also included in the invention. Regarding groups which form prodrugs of the invention, the groups described in *Prog. Med.*, 5; 2157 – 2161, 1985 and the groups described in "Iyakuhin no Kaihatsu" (Development of Medicines), vol. 7, Bunshi Sekkei (Molecular Design), pp. 163 – 198, published in 1990 by Hirokawa Shoten can be exemplified.

(Production methods)

The compounds of the invention and pharmaceutically acceptable salts thereof can be produced by employing various conventionally known synthesis methods, making use of characteristics based on their basic nuclei or the kind of substituent groups. Typical production methods are exemplified in the following. In this connection, depending on the kind of functional group, it is effective in some cases, in view of production techniques, to replace said functional group with an appropriate

protecting group, namely a group which is easily converted into said functional group, at a stage of from the materials to intermediates. Thereafter, the compound of interest can be obtained by removing the protecting group as occasion demands. Examples of such a functional group include hydroxyl group, carboxy group, amino group and the like, and the protecting groups described in "Protective Groups in Organic Synthesis (3rd Edition)" edited by Greene and Wuts can be exemplified as their protecting groups which may be optionally used in response to the reaction conditions.

<Intermediate production method>

Lv
$$\frac{a}{b}$$
 R^{a} $\frac{B^{1}-A-H}{(b)}$ B^{1} A $\frac{a}{b}$ R^{2} (a)

Second step hydrolysis, if necessary

$$B^{1}-A \xrightarrow{a} X CO_{2}H$$
(d)

(In the reaction scheme, R², a, b, X, Y and A are as defined in the foregoing; Lv represents a leaving group; B¹ represents the aforementioned B or a protecting group of hydroxyl group, amino group or sulfanil group; R^a represents carboxyl group, a lower alkyl oxycarbonyl group or cyano group. The same shall apply hereinafter.)

This production method is a method in which the compound (c) is produced by substituting leaving group Lv of the compound (a) by the compound (b), and then the compound (d) is produced therefrom by carrying out hydrolysis of the same as occasion demands.

(First step)

Examples of the leaving group Lv in the compound (a) include fluoro, chloro, methanesulfonyloxy, p-toluenesulfonyloxy and trifluoromethanesulfonyloxy, of which fluoro, chloro and methanesulfonyloxy are preferred.

The reaction can be carried out at room temperature to heating under reflux using the compound (a) and compound (b) in equimolar amounts or one of them in an excess amount, without solvent or in a reaction inert solvent such as benzene, toluene, xylene or the like aromatic hydrocarbons; diethyl ether, tetrahydrofuran (THF), dioxane or the like ethers; dichloromethane, 1,2-dichloroethane, chloroform or the like halogenated hydrocarbons; N,N-dimethylformamide (DMF); dimethylacetamide (DMA); N-methylpyrrolidone; dimethyl sulfoxide (DMSO); ethyl acetate (EtOAc)or the like esters; acetonitrile or the like, or in methanol (MeOH), ethanol (EtOH), 2-propanol (iPrOH) or the like alcohols. Depending on the compound, it is advantageous in some cases to carry out the reaction in the presence of an organic base (preferably triethylamine, diisopropylethylamine, N-methylmorpholine, pyridine or 4-(N,N-dimethylamino) pyridine) or a metal salt base (preferably potassium carbonate, cesium carbonate, sodium hydroxide or sodium hydride).

(Second step)

The reaction can be carried out by treating the compound (c) under cooling to heating under reflux, in a solvent inert to the reaction such as an aromatic hydrocarbon, an ether, a halogenated hydrocarbon, an alcohol solvent, DMF, DMA, DMSO, pyridine, water or the like in the presence of sulfuric acid, hydrochloric acid, hydrobromic acid or the like mineral acid, formic acid, acetic acid or the like organic acid or sodium hydroxide, potassium carbonate, sodium carbonate, cesium carbonate, ammonia or the like base.

<First production method>

(In the reaction scheme, R¹ is as defined in the foregoing, and R^b represents a lower alkyl. The same shall apply hereinafter.)

This production method is a method in which a compound (1b) is produced by condensing the compound (d) produced in the aforementioned intermediate production method with a compound (1a), a compound (1c) is produced by hydrolyzing the former and then the product is condensed with a compound (1d), thereby producing the compound (I) of the invention in which B¹ is B or a compound (1e) in which B¹ is hydroxyl group, amino group or sulfanil group.

(First step)

The compound (d) can be used in the reaction as free acid, but its reactive derivative can also be used in the reaction. Examples of the reactive derivative of

compound (d) include methyl ester, ethyl ester, tert-butyl ester or the like general ester; acid chloride, acid bromide or the like acid halide; acid azide; active ester with N-hydroxybenzotriazole, p-nitrophenol, N-hydroxysuccinimide or the like; symmetric acid anhydride; mixed acid anhydride with alkyl carbonate halide or the like halocarboxylic acid alkyl ester, pivaloyl halide, p-toluenesulfonic acid chloride or the like; mixed acid anhydride such as a phosphoric acid system mixed acid anhydride obtained by reacting with diphenylphosphoryl chloride and N-methylmorpholine, and the like.

When the compound (d) is allowed to undergo the reaction as free acid, or an active ester is allowed to undergo the reaction without isolation, it is desirable to use a condensing agent such as dicyclohexylcarbodiimide (DCC), 1,1'-carbonylbis-1H-imidazole (CDI), diphenylphosphoryl azide (DPPA), diethylphosphoryl cyanide, 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride (WSCD) or the like.

According to the invention, an acid chloride method, a method in which the reaction is carried out in the coexistence of an active esterification agent and a condensing agent and a method in which a general ester is treated with amine are particularly convenient, because the compound of the invention can be obtained conveniently and easily.

Though it varies depending on the reactive derivative and condensing agent to be used, the reaction is carried out under cooling, under cooling to room temperature or under room temperature to heating, in a reaction inert solvent such as a halogenated hydrocarbon, an aromatic hydrocarbon, an ether, an ester, acetonitrile, DMF, DMSO or the like.

In this connection, it is advantageous in some cases in smoothly progressing the reaction to use the compound (1a) in an excess amount in carrying out the reaction, or to carry out the reaction in the presence of a base such as N-methylmorpholine, trimethylamine, triethylamine, diisopropylethylamine, N,N-dimethylamiline, pyridine, 4-(N,N-dimethylamino) pyridine, picoline, rutidine or the like. In addition, a salt

consisting of pyridine hydrochloride, pyridine p-toluenesulfonate, N,N-dimethylaniline hydrochloride or the like weak base and a strong acid may be used. Pyridine can also be used as a solvent.

Particularly, it is suitable to carry out the reaction in acetonitrile, DMF or the like solvent in the presence of pyridine, N,N-dimethylaniline or the like base or pyridine hydrochloride or the like salt.

(Second step)

The reaction can be carried out in accordance with the second step of the intermediate production method.

(Third step)

The reaction can be carried out in accordance with the first step of the first production method.

The compound (1e) can be made into the compound (I) of the invention by removing the protecting group as occasion demands or further introducing a necessary side chain in accordance with a general method. Introduction of the necessary side chain can also be carried out in accordance with the third step of the following second production method.

<Second production method>

(In the reaction scheme, B^2 is protecting group of hydroxyl group, amino group or sulfanil group. The same shall apply hereinafter.)

This production method is a method in which a compound (2a) is produced by condensing a compound (dd) produced by the aforementioned intermediate production method, wherein B² is not B, with a compound (1a), a compound (2b) is produced by removing the protecting group B², a compound (2f) is produced by condensing with a compound (2c) or (2d), a compound (2f) is produced by hydrolyzing it, and then the compound (I) of the invention is produced by condensing with a compound (1d). (First step)

This reaction can be carried out in accordance with the first step of the first production method.

(Second step)

As the protecting group of hydroxyl group, amino group or sulfanil group, the protecting groups described in the aforementioned "Protective Groups in Organic Synthesis (3rd Edition)" can be exemplified. The reaction can be carried out in accordance with the method described in "Protective Groups in Organic Synthesis (3rd Edition)".

Particularly, when benzyl group is used as the protecting group of hydroxyl group, a method in which benzyl group is removed by allowing pentamethylbenzene to react therewith in a strongly acidic solution such as trifluoroacetic acid or the like can also be used.

(Third step)

As the leaving group Lv in the compound (2c), chloro, bromo, iodo, methanesulfonyloxy, p-toluenesulfonyloxy and trifluoromethanesulfonyloxy can for example be cited, of which bromo, methanesulfonyloxy and p-toluenesulfonyloxy are preferable.

Regarding the reaction which uses the compound (2c), a general alkylation reaction can be used, and preferably, it can be carried out using the compound (2b) and compound (2c) under cooling, under cooling to room temperature or under room

temperature to heating in equimolar amounts or one of them in an excess amount in a reaction inert solvent such as acetonitrile, DMF, DMSO, an ether or the like, in the presence of potassium carbonate, sodium carbonate, cesium carbonate, sodium hydroxide, potassium hydroxide or the like base.

The reaction which uses the compound (2d) can be carried out under the Mitsunobu reaction condition in an aprotic solvent reaction inert to the reaction, such as an ether, DMF, N-methylpyrrolidone or the like, in the presence of triphenylphosphine or the like organic phosphine and diethyl azodicarboxylate, diisopropyl azodicarboxylate or the like dialkyl azodicarboxylate (*Synthesis*, 1981, p. 1). (Fourth step)

This reaction can be carried out in accordance with the second step of the first production method.

(Fifth step)

This reaction can be carried out in accordance with the first step of the first production method.

In addition, some of the compounds of the invention represented by the formula (I) can be produced from the compounds of the invention obtained by the first production method or second production method, by optionally combining conventionally known alkylation, acylation, substitution reaction, oxidation, reduction, hydrolysis and the like steps which can be generally employed by those skilled in the art. Illustratively, oxidation of sulfur atom by metachloroperbenzoic acid or the like oxidizing agent, and the like can for example be cited, and such reactions carried out by employing or in accordance with the methods described in "Jikken Kagaku Koza (Experimental Chemistry Course) 4th edition" (Maruzen, 1990 – 1992). In addition, these steps which can be generally employed by those skilled in the art are not limited to the application to the compounds of the invention, and they can also be applied to the production intermediates. Illustratively, they can be applied, for example, to the

compound obtained by the third step of the second production method, and thereafter, the next step can be carried out.

The compounds of the invention produced in this manner are isolated and purified as free compounds or salts thereof by carrying out salt formation treatment in the usual way. Isolation and purification are carried out by employing usual chemical operations such as extraction, concentration, evaporation, crystallization, filtration, recrystallization, various types of chromatography and the like.

Various isomers can be isolated in the usual way by making use of differences in physicochemical properties among isomers. For example, a racemic mixture can be converted into optically pure isomers, for example, by a general racemic body resolution method such as a method in which they are converted into diastereomer salts with tartaric acid or the like general optically active acid and then subjected to optical resolution. Also, a diastereomer mixture can be separated, for example, by fractional crystallization or various types of chromatography. In addition, an optically active compound can also be produced using an appropriate optically active material.

Industrial Applicability

The compounds of the invention have excellent agonistic activity upon arginine vasopressin V₂ receptor. Accordingly, the compounds of the invention have antidiuretic action of a profile based on this action, and are effective in preventing and/or treating urinary frequency, urinary incontinence, enuresis, central diabetes insipidus, nocturia and nocturnal enuresis. Also, in addition to these, since they have the action to release blood coagulation factor VIII and von Willebrand factor based on the V₂ receptor agonistic activity, they are useful for various bleeding conditions and useful in diagnosing, preventing and treating spontaneous hemorrhage, hemophilia, von Willebrand disease, uremia, congenital or acquired platelet dysfunction, traumatic and operation hemorrhage, hepatic cirrhosis and the like.

In addition, the compounds of the invention have markedly low inhibitory activity upon drug metabolizing enzymes CYP3A4 and CYP2C9, possibility of causing drug interaction with other drugs which are metabolized via CYP3A4 or CYP2C9 is small in comparison with the conventionally known benzazepine derivatives having arginine vasopressin V₂ receptor agonistic activity, so that they are also excellent from the viewpoint that they can be safely used in the combined therapy with other medicaments.

Examples of the drugs which are metabolized by CYP3A4 include simvastatin, lovastatin, fluvastatin, midazolam, nifedipine, amlodipine, nicardipine and the like, and examples of the drugs which are metabolized by CYP2C9 include diclofenac, ibuprofen, indometacin, tolbutamide, glibenclamide, losartan and the like (*Sogo Rinsho* (General Clinics), 48(6), 1427 – 1431, 1999).

Pharmacological actions of the compounds of the invention were verified by the following test methods.

(1) V_2 receptor binding test

A human V₂ expression CHO cell membrane sample was prepared in accordance with the method of Tahara *et al.* (*British Journal of Pharmacology*, Vol. 125, pp. 1463 – 1470, 1998). A 2 μg portion of the membrane sample was incubated together with [³H]-arginine vasopressin (to be referred simply to as "[³H]-vasopressin" hereinafter) (0.5 nM, specific activity = 75 Ci/mmol) and each compound to be tested (10⁻¹⁰ to 10⁻⁵ M) at 25°C for 60 minutes in 250 μl in total volume of 50 mM Tris-HCl buffer (pH = 7.4) containing 10 mM MgCl₂ and 0.1% bovine serum albumin (BSA). Thereafter, free [³H]-vasopressin and receptor-bonded [³H]-vasopressin were separated using a cell harvester, and the receptor-bonded [³H]-vasopressin was adhered onto a uni-filter plate GF/B glass filter. After sufficient drying, this was mixed with a microplate scintillation cocktail, amount of the receptor-bonded [³H]-vasopressin was

measured using top count and the inhibition ratio was calculated by the following formula.

Inhibition ratio (%) = $100 - (C_1 - B_1)/(C_0 - B_1) \times 100$

C₁: Amount of [³H]-vasopressin bonded to the membrane sample when [³H]-vasopressin and the receptor membrane sample are treated in the coexistence of test compound having known concentration

C₀: Amount of [³H]-vasopressin bonded to the membrane sample when [³H]-vasopressin and the receptor membrane sample are treated in the absence of test compound

B₁: Amount of [³H]-vasopressin bonded to the membrane sample when [³H]-vasopressin and the receptor membrane sample are treated in the coexistence of excess amount of vasopressin (10⁻⁶ M)

Concentration of each test compound by which the inhibition ratio becomes 50% (IC₅₀ value) was calculated by the aforementioned formula, and affinity of the test compound for the receptor, namely dissociation constant (Ki), was calculated from this by the following formula.

Dissociation constant (Ki) = $IC_{50}/(1 + [L]/Kd)$

[L]: Concentration of [³H]-vasopressin

Kd: Dissociation constant of [3H]-vasopressin against the receptor obtained by a saturation binding test

(Table 1)

Affinity for V₂ receptor

Compounds	Ki (nM)	Compounds	Ki (nm)
Example 3	11	Example 31	10
Example 9	19	Example 54	17
Example 14	18	Example 55	16
Example 24	4.3	Example 134	12
Example 46	5.8	Example 136	11
Example 98	6.2	Comparative compound 6	

In this connection, the comparative compound is the compound of Example 32 described in International Publication WO 97/22591 (compound name: 2-[(5R)-1-(2-chloro-4-pyrrolidin-1-ylbenzoyl)-2,3,4,5-tetrahydrobenzazepin-5-yl]-N-isopropylacetamide).

As shown in Table 1, it was confirmed that the compounds of the invention have high affinity for V_2 receptor.

(2) Antidiuretic test (intravenous administration)

Five animals per group of male Wistar rats (10 to 12 weeks of age) were used in the test. The compound of Example 3 was intravenously administered to group A at a dose of 0.3 mg/kg, and the compound of Example 9 to group B at a dose of 0.3 mg/kg, both after dissolving in a solvent (physiological saline containing DMSO), and the solvent alone at a dose of 1 ml/kg to group C as a control, and then 30 ml/kg of distilled water was orally administered by force 15 minutes thereafter (water loading). Urine samples until 2 hours after the water loading were collected using a metabolism cage, and the amount of urine when the water loading amount was defined as 100% was calculated as the urine excretion ratio. In this connection, average value of the urine excretion ratio until after 1 hour and the urine excretion ratio until after 2 hours in each group was used in the evaluation. The results are shown in Table 2.

(Table 2)

Antidiuretic effects (intravenous administration)

	Commoundo	Urine excretion ratio (%)		
	Compounds	After 1 hour	After 2 hours	
Group A	Example 3	1.3	6.2	
Group B	Example 9	0	5.3	
Group C	Solvent	64.0	80.0	

As shown in Table 2, it was revealed that the compounds of the invention have excellent antidiuretic effects.

(3) Antidiuretic test (oral administration)

Male Wistar rats (10 to 12 weeks of age) were used in the test. Each compound to be tested was orally administered, and then 30 ml/kg of distilled water was orally administered by force 15 minutes thereafter (water loading). Urine samples until 4 hours after the water loading were collected using a metabolism cage, and the amount of urine when the water loading amount was defined as 100% was calculated as the urine excretion ratio. In this connection, the dose each test compound necessary for reducing 50% of the urine excretion ratio (ED₅₀) was used in the evaluation. As a result, it was revealed that the compounds of the invention show excellent antidiuretic action not only by intravenous administration but also by oral administration.

(4) Cytochrome P450 (3A4) enzyme inhibition test

This test was carried out in accordance with the method of Crespi et al. (Analytical Biochemistry, 248, 188 – 190, 1997).

Using a 96 well plate, 7-benzyloxy-4-(trifluoromethyl)cumarin as the substrate (5 x 10^{-5} M), each test compound (from 4.9 x 10^{-8} to 5 x 10^{-5} M) and the enzyme (5 x

10⁻⁹ M) were incubated at 37°C for 30 minutes in 200 μl in total volume of 200 mM phosphate buffer (pH = 7.4) containing 8.2 μM NADP+, 0.41 mM glucose-6-phosphate, 0.41 mM MgCl₂ and 0.4 units/ml glucose-6-phosphate dehydrogenase. Thereafter, the reaction was stopped by adding 0.5 M 2-amino-2-hydroxymethyl-1,3-propanediol aqueous solution containing 80% acetonitrile, and the fluorescence intensity (excitation wavelength; 409 nm, fluorescence wavelength; 530 nm) was measured using a fluorescence plate reader. The inhibition ratio was calculated based on the following formula, and concentration of each test compound by which the inhibition ratio becomes 50% (IC₅₀) was obtained. The results are shown in Table 3.

Inhibition ratio (%) = $100 - (C_1 - B_1)/(C_0 - B_1) \times 100$

C₁: Fluorescence intensity in the presence of test compound having known concentration, enzyme and substrate

C₀: Fluorescence intensity in the absence of test compound and in the presence of enzyme and substrate

B₁: Fluorescence intensity of blank well

(5) Cytochrome P450 (2C9) enzyme inhibition test

This test was carried out in accordance with the method of Crespi *et al*. (Analytical Biochemistry, 248, 188 – 190, 1997).

Using a 96 well plate, 7-methoxy-4-(trifluoromethyl)cumarin as the substrate $(7.5 \times 10^{-5} \text{ M})$, each test compound (from 4.9×10^{-8} to 5×10^{-5} M) and the enzyme (10^{-8} M) were incubated at 37°C for 45 minutes in 200 µl in total volume of 200 mM phosphate buffer (pH = 7.4) containing 8.2 µM NADP+, 0.41 mM glucose-6-phosphate, 0.41 mM MgCl₂ and 0.4 units/ml glucose-6-phosphate dehydrogenase. Thereafter, the reaction was stopped by adding 0.5 M 2-amino-2-hydroxymethyl-1,3-propanediol aqueous solution containing 80% acetonitrile, and the fluorescence intensity (excitation wavelength; 409 nm, fluorescence wavelength; 530 nm) was measured using a

fluorescence plate reader. The inhibition ratio was calculated based on the same formula of aforementioned (4), and concentration of each test compound by which the inhibition ratio becomes 50% (IC₅₀) was obtained. The results are shown in Table 3.

(Table 3)

CYP (3A4 and 2C9) inhibitory activity

Compounds	IC ₅₀ (μM)	
	CYP3A4	CYP2C9
Example 3	>50	>50
Example 9	13	11
Example 51	>50	34
Example 54	>50	43
Example 130	>50	>50
Example 136	>50	>50
Comparative compound	<0.091	<0.091

As shown in Table 3, the compounds of the invention showed markedly low inhibitory action upon the drug metabolizing enzymes CYP3A4 and CYP2C9. In this connection, the comparative compound is the same comparative compound shown in Table 1.

The medicament of the invention can be prepared by a generally used method using one or more of the compounds of the invention represented by the general formula (I) and carriers for drug, fillers and other additive agents which are generally used in preparing medicines. Its administration may be either oral administration in the form of tablets, pills, capsules, granules, powders, solutions and the like, or parenteral administration in the form of intravenous injections, intramuscular injections

or the like injections, or suppositories, transnasal preparations, transmucosal preparations, percutaneous preparations and the like.

The solid composition for use in the oral administration according to the present invention is used in the form of tablets, powders, granules and the like. In such a solid composition, one or more active substances are mixed with at least one inert diluent such as lactose, mannitol, glucose, hydroxypropylcellulose, microcrystalline cellulose, starch, polyvinyl pyrrolidone, aluminum magnesium silicate or the like. In the usual way, the composition may contain other additives than the inert diluent, such as magnesium stearate or the like lubricant, calcium cellulose glycolate or the like disintegrating agent, lactose or the like stabilizing agent and glutamic acid, aspartic acid or the like solubilization assisting agent. As occasion demands, tablets or pills may be coated with a sugar coating a film of a gastric or enteric substance, such as sucrose, gelatin, hydroxypropylcellulose, hydroxypropylmethylcellulose phthalate or the like.

The liquid composition for oral administration includes pharmaceutically acceptable emulsions, solutions, suspensions, syrups, elixirs and the like and contains a generally used inert diluent such as purified water or ethanol. In addition to the inert diluent, this composition may also contain a moistening agent, a suspending agent and the like auxiliary agents, as well as sweeteners, flavors, aromatics and antiseptics.

The injections for parenteral administration includes aseptic aqueous or non-aqueous solutions, suspensions and emulsions. Examples of the diluent for use in the aqueous solutions and suspensions include distilled water for injection and physiological saline. Examples of the diluent for use in the non-aqueous solutions and suspensions include propylene glycol, polyethylene glycol, olive oil or the like plant oil, EtOH or the like alcohol, polysorbate 80 and the like. Such a composition may further contain additive agents including an antiseptic, a moistening agent, an emulsifying agent, a dispersing agent, a stabilizing agent such as lactose, and a solubilization assisting agent such as glutamic acid or aspartic acid. These are sterilized, for

example, by filtration through a bacteria retaining filter, blending of a germicide or irradiation. Alternatively, they can also be used by firstly making into sterile solid compositions and dissolving them in sterile water or a sterile solvent for injection prior to their use.

In the case of oral administration, the appropriate daily dose is generally from about 0.0001 to 50 mg/kg, preferably from about 0.001 to 10 mg/kg, more preferably from 0.01 to 1 mg/kg, per body weight, and this is administered once a day or dividing it into 2 to 4 doses. In the case of intravenous administration, the appropriate daily dose is generally from about 0.0001 to 1 mg/kg, preferably from about 0.0001 to 0.1 mg/kg, per body weight, and this is administered once a day or dividing it into two or more doses. The dose is optionally decided in response to individual cases by taking into consideration symptoms, age, sex and the like. However, since the dose varies under various conditions, a smaller dose than the above range may be sufficient enough in some cases.

Best Mode for Carrying Out the Invention

The following illustratively describes the invention based on examples, but the invention is not restricted by these examples. In this connection, since novel substances are included in the material compounds to be used in the examples, methods for producing such material compounds from conventionally known substances are described as reference examples.

Reference Example 1

A 5.2 g portion of 60% sodium hydride oil dispersion was suspended in 50 ml of DMF, and 6.73 ml of benzyl alcohol was added thereto under ice-cooling. After warming up to room temperature, 12.3 g of 4-fluoro-2-trifluoromethylbenzoic acid was added thereto and stirred at room temperature for 6 hours. A 1 M hydrochloric acid

aqueous solution was added to the reaction mixture, and the thus precipitated crystals were collected by filtration to obtain 16.39 g of 4-(benzyloxy)-2-(trifluoromethyl)benzoic acid.

MS(+); 297

In the same manner as in Reference Example 1, Reference Examples 2 to 4 shown in Table 4 were produced using respective corresponding materials.

In this connection, signs in the table show the following meanings (the same shall apply hereinafter).

Rf: Reference Example number,

Data: physicochemical date (NMR: uses (CH₃)₄Si as the internal standard, and unless otherwise noted, shows peak δ (ppm) by ¹H-NMR using DMSO-d₆ as the measuring solvent,

MS(+): FAB-MS $[M + H]^+$, MS(-): FAB-MS $[M - H]^+$, EMS(+): ESI-MS $[M + H]^+$, EMS(-): ESI-MS $[M - H]^+$,

RA, RB: substituent groups in the general formula,

nPr: normal propyl, cPr: cyclopropyl.

In this connection, regarding the NMR data, there is a case in which a compound gives a complex data due to the presence of two or more conformers, but among them, only a peak which corresponds to a conformer considered to be mainly present was described. In addition, these peaks were converged on a peak showing one kind of compound, by measuring under heating.

(Table 4)

nPr-S-

 CF_3

CO2H

MS(-): 263

Reference Example 5

A 4.44 g portion of methyl 4-fluoro-2-trifluorobenzoate was dissolved in 40 ml of DMF, 3.32 g of potassium carbonate and 4.10 ml of N-methyl-N-propylamine were added thereto, and the mixture was stirred at 80°C for 14 hours. After cooling the reaction mixture, phase separation operation was carried out by adding water and EtOAc. The organic layer was washed with saturated brine and dried with anhydrous sodium sulfate, and then the crude product obtained by evaporating the solvent was subjected to a silica gel column chromatography, eluted with hexane-EtOAc (4:1) and concentrated under a reduced pressure to obtain 4.79 g of methyl 4-[methyl(propyl)amino]-2-(trifluoromethyl)benzoate.

MS(+): 276

Reference Example 6

A 4.78 g portion of the compound of Reference Example 5 was dissolved in 20 ml of MeOH, and 6.94 g of 5 M sodium hydroxide aqueous solution was added thereto and stirred at 70°C for 5 hours. The reaction mixture was cooled and then concentrated under a reduced pressure. The thus obtained residue was neutralized with 1 M hydrochloric acid aqueous solution, and the precipitated crystals were collected by filtration to obtain 4.36 g of 4-[methyl(propyl)amino]-2-(trifluoromethyl)benzoic acid.

Reference Example 7

A 8.0 g portion of the compound of Reference Example 1 was dissolved in 80 ml of THF, 8 ml of thionyl chloride and 3 drops of DMF were added thereto under ice-cooling, and then this was stirred at room temperature for 3 hours. By evaporating the reaction solvent and then carrying out drying, an acid chloride compound was obtained. This was mixed with 6.84 g of (Z)-methyl (4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene)acetate, mixed with 50 ml of pyridine under ice-cooling and then stirred at room temperature for 12 hours. After completion of the reaction, the solvent was evaluated and separation of layers was carried out by adding 1 M hydrochloric acid aqueous solution and EtOAc. The organic layer was washed with water and saturated brine and dried with anhydrous sodium sulfate. The solvent was evaporated and the thus obtained residue was recrystallized from EtOH to obtain 9.12 g of methyl (2Z)-{1-[4-(benzyloxy)-2-(trifluoromethyl)benzoyl]-4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene}acetate.

EMS(+): 532

In the same manner as in Reference Example 7, the Reference Examples 8 to 11 shown in Table 5 were produced using respective corresponding materials.

In this connection, the sign in the table represents the following meaning (the same shall apply hereinafter).

Me: methyl.

(Table 5)

Rf	R ^A	R ^B	Data
8	CF ₃	cPr-CH₂O-	EMS(+): 496
9	Cl	nPr-S-	MS(+): 466
10	CF ₃	nPr-S-	MS(+): 500
11	CF ₃	nPr-N(Me)-	MS(+): 497

Reference Example 12

A 9.1 g portion of the compound of Reference Example 7 was dissolved in 100 ml of trifluoroacetic acid, and 5.1 g of pentamethylbenzene was added thereto and stirred at room temperature for 12 hours. The insoluble matter was filtered, and then the filtrate was concentrated under a reduced pressure. Diethyl ether was added to the thus obtained residue, and the precipitated crystals were collected by filtration to obtain 6.22 g of methyl (2Z)-{4,4-difluoro-1-[4-(benzyloxy)-2-(trifluoromethyl)benzoyl]-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene} acetate.

EMS(+): 442

Reference Example 13

A 3.89 g portion of the compound of Reference Example 12 was dissolved in 20 ml of DMSO, and 2.06 g of tert-butyl bromoacetate and 1.46 g of potassium carbonate were added thereto and stirred at room temperature for 2 hours. After filtration of the insoluble matter, separation of layers was carried out by adding water

and EtOAc. The organic layer was washed with saturated brine and dried with anhydrous sodium sulfate. The solvent was evaporated and the thus obtained residue was subjected to a silica gel column chromatography to obtain 3.55 g of methyl (2Z)-{1-[4-(2-tert-butoxy-2-oxoethoxy)-2-(trifluoromethyl)benzoyl]-4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene}acetate from chloroform-MeOH (80:1) eluate. EMS(+): 556

Reference Example 14

A 3.75 g portion of the compound of Reference Example 13 was dissolved in 20 ml of trifluoroacetic acid and stirred at room temperature for 30 minutes. By evaporating the solvent under a reduced pressure, 3.25 g of [4-{[(5Z)-4,4-difluoro-5-(2-methoxy-2-oxoethylidene)-2,3,4,5-tetrahydro-1H-1-benzazepin-1-yl]carbonyl}-3- (trifluoromethyl)phenoxy]acetic acid was obtained.

MS(+): 450

Reference Example 15

A 1.09 g portion of the compound of Reference Example 14 was dissolved in 10 ml of DMF, 324 mg of HOBt, 460 mg of WSCD, 1.20 ml of dimethylamine (2.0 M THF solution) and 0.335 ml of triethylamine were added thereto, and then this was stirred at room temperature for 6 hours. Sodium bicarbonate aqueous solution was added to the reaction liquid, the thus formed precipitate was collected by filtration, and the thus obtained crude product was washed with water and then dried under a reduced pressure to obtain 1.14 g of methyl (2Z)-{1-[4-(2-dimethylamino-2-oxoethoxy)-2-(trifluoromethyl)benzoyl]-4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene} acetate.

MS(+): 527

Reference Example 16

A 1.00 g portion of the compound of Reference Example 12 was dissolved in 15 ml of THF, 0.415 ml of 1-butanol, 1.19 g of triphenylphosphine and 2.08 ml of diethyl azodicarboxylate were added thereto, and then this was stirred at room temperature for 17 hours. Water and EtOAc were added to the reaction mixture to carry out separation of layers. The organic layer was washed with water and saturated brine and dried with anhydrous magnesium sulfate. The solvent was evaporated and the thus obtained residue was subjected to a silica gel column chromatography, eluted with chloroform-MeOH (50:1) and then concentrated under a reduced pressure to obtain 1.41 g of crude methyl (2Z)-{1-[4-butoxy-2-(trifluoromethyl)benzoyl]-4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene}acetate.

The compound obtained in the above was dissolved in 5 ml MeOH-10 ml THF, mixed with 1 M sodium hydroxide aqueous solution and then stirred at room temperature for 2 hours. After evaporation of the solvent, 1 M hydrochloric acid and chloroform-iPrOH (3:1 mixed solvent) was added thereto to carry out separation of layers. The organic layer was washed with saturated brine and dried with anhydrous sodium sulfate. By evaporating the solvent, 1.01 g of (2Z)-{1-[4-butoxy-2-(trifluoromethyl)benzoyl]-4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene} acetic acid was obtained.

MS(+): 484

In the sama manner as in Reference Example 16, the Reference Examples 17 to 19 shown in Table 6 were produced using respective corresponding materials.

In this connection, the sign in the table represents the following meaning (the same shall apply hereinafter).

iBu: isobutyl.

(Table 6)

Reference Example 20

A 1.43 g portion of the compound of Reference Example 7 was dissolved in a mixed solvent of 15 ml MeOH-25 ml THF, mixed with 1 M sodium hydroxide aqueous solution and stirred at room temperature for 2 hours. After evaporation of the solvent, the liquid property was changed to acidic by adding 1 M hydrochloric acid, and then the thus precipitated white solid was collected by filtration and dried under a reduced pressure to obtain 1.39 g of (2Z)-{1-[4-(benzyloxy)-2-(trifluoromethyl)benzoyl]-4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene}acetic acid.

MS(+): 518

In the sama manner as in Reference Example 20, the Reference Examples 21 to 25 shown in Table 7 were produced using respective corresponding materials.

(Table 7)

Rf	R ^A	R ^B	Data
21	CF ₃	cPr-CH₂O-	EMS(+): 482
22	Cl	nPr-S-	MS(+): 452
23	CF ₃	nPr-S-	MS(+): 486
24	CF ₃	nPr-N(Me)-	MS(+): 483
25	CF ₃	Me ₂ NOCCH ₂ -O-	MS(+): 513

Reference Example 26

Concentrated sulfuric acid was added to MeOH solution of the compound of Reference Example 1, and heating under reflux was carried out for 3 days. The reaction mixture was poured into ice water to carry out extraction operation with ether. After evaporation of the solvent, the thus obtained residue was dissolved in EtOH, mixed with 10% palladium on carbon and, in an atmosphere of hydrogen, stirred at room temperature for 24 hours to obtain methyl 4-hydroxy-2-(trifluoromethyl)benzoate. MS(+): 221

Reference Example 27

Bromoacetone and potassium carbonate was added to acetonitrile solution of the compound of Reference Example 26 and stirred at 60°C for 1 hour to obtain methyl 4-(2-oxopropoxy)-2-(trifluoromethyl)benzoate.

ESI-MS(+): 299 [M+23]+

Reference Example 28

(Diethylamino)sulfur trifluoride was added at -78°C to methylene chloride

solution of the compound of Reference Example 27, and stirred at room temperature for

24 hours to obtain methyl 4-(2,2-difluoropropoxy)-2-(trifluoromethyl)benzoate.

EI-MS: 298 [M]⁺

Reference Example 29

5 M Sodium hydroxide aqueous solution was added to MeOH solution of the

compound of Reference Example 28, and stirred at 90°C for 2.5 hours to obtain 4-(2,2-

difluoropropoxy)-2-(trifluoromethyl)benzoic acid.

MS(-): 283

Reference Example 30

Triethylamine was added to methylene chloride solution of (2S)-propane-1,2-

diol, and then methylene chloride solution of p-toluenesulfonyl chloride was added

thereto at -20°C and stirred at room temperature for 18 hours to obtain (2S)-2-

hydroxypropyl-4-methylbenzene sulfonate.

MS(+): 231

Reference Example 30A

N,N-Dimethylaniline and acetic anhydride were added to THF solution of the

compound of Reference Example 30 and stirred at 0°C for 1 hour to obtain (1S)-1-

methyl-2-{[(4-methylphenyl)sulfonyl]oxy}ethyl acetate.

MS(+): 273

41

Reference Example 30B

The compound of Reference Example 26 and potassium carbonate were added to DMF solution of the compound of Reference Example 30A and stirred at 70°C for 17 hours to obtain methyl 4-{[(2S)-2-(acetyloxy)propyl]oxy}-2-(trifluoromethyl)benzoate. MS(+): 321

Reference Example 31

1 M Potassium hydroxide-MeOH solution was added at 0°C to MeOH solution of the compound of Reference Example 30B and stirred at room temperature for 1 hour to obtain methyl 4-{[(2S)-2-hydroxypropyl]oxy}-2-(trifluoromethyl)benzoate.

MS(+): 279

Reference Example 32

(Diethylamino)sulfur trifluoride was added at -78°C to methylene chloride solution of the compound of Reference Example 31 and stirred at room temperature for 15 hours to obtain methyl 4-{[(2R)-2-fluoropropyl]oxy}-2-(trifluoromethyl)benzoate. FAB-MS(+): 280 [M]⁺

Reference Example 33

5 M Sodium hydroxide aqueous solution was added to MeOH solution of the compound of Reference Example 32 and stirred at 70°C for 6 hours to obtain 4-{[(2R)-2-fluoropropyl]oxy}-2-(trifluoromethyl)benzoic acid.

MS(+): 267

Reference Example 34

Sodium borohydride was added at 0°C to EtOH solution of the compound of Reference Example 27 and stirred at room temperature for 1 hour to obtain methyl 4-(2-hydroxypropoxy)-2-(trifluoromethyl)benzoate.

ESI-MS(+): 301 [M+23]+

Reference Example 35

In the same manner as in Reference Example 30, (2R)-2-hydroxypropyl-4-methylbenzene sulfonate was produced using (2R)-propane-1,2-diol.

MS(+): 231

Reference Example 35A

In the same manner as in Reference Example 30A, (1R)-1-methyl-2-{[(4-methylphenyl)sulfonyl]oxy}ethyl acetate was produced using the compound of Reference Example 35.

MS(+): 273

Reference Example 35B

In the same manner as in Reference Example 30B, methyl 4-{[(2R)-2-(acetyloxy)propyl]oxy}-2-(trifluoromethyl)benzoate was produced using the compound of Reference Example 35A.

MS(+): 321

Reference Example 36

In the same manner as in Reference Example 31, methyl 4-{[(2R)-2-hydroxypropyl]oxy}-2-(trifluoromethyl)benzoate was produced using the compound of Reference Example 35B.

MS(+): 279

Reference Example 37

In the same manner as in Reference Example 32, methyl 4-{[(2S)-2-fluoropropyl]oxy}-2-(trifluoromethyl)benzoate was produced using the compound of Reference Example 36.

MS(+): 281

Reference Example 38

In the same manner as in Reference Example 33, 4-{[(2S)-2-fluoropropyl]oxy}-2-(trifluoromethyl)benzoic acid was produced using the compound of Reference Example 37.

MS(+): 267

In the same manner as in Reference Example 7, the Reference Examples 39 to 41 shown in Table 8 were produced using respective corresponding materials.

(Table 8)

Rf	R ^B	R^{D}	Data
39	(S)-O-CH2CHFCH3	Н	EMS(+): 502
40	(R)-O-CH ₂ CHFCH ₃	Н	EMS(+): 502
41	(S)-O-CH ₂ CHFCH ₃	F	MS(+): 520
42	(R)-O-CH ₂ CHFCH ₃	F	MS(+): 520
41	-O-CH ₂ CF ₂ CH ₃	Н	MS(+): 520

In the same manner as in Reference Example 20, the Reference Examples 42 to 46 shown in Table 9 were produced using respective corresponding materials.

(Table 9)

Rf	R ^B	R ^D	Data
42	(S)-O-CH ₂ CHFCH ₃	Н	MS(+): 488
43	(R)-O-CH ₂ CHFCH ₃	Н	MS(+): 488
44	(S)-O-CH ₂ CHFCH ₃	F	MS(+): 506
45	(R)-O-CH ₂ CHFCH ₃	F	MS(+): 506
46	-O-CH ₂ CF ₂ CH ₃	Н	MS(+): 506

Example 1

A 150 mg portion of the compound of Reference Example 20 was dissolved in 5 ml of DMF, mixed with 43 mg of HOBt, 61 mg of WSCD, 35 mg of glycine amide hydrochloride and 0.045 ml of triethylamine, and then stirred at room temperature for 4 hours. Saturated sodium bicarbonate aqueous solution and EtOAc were added to the reaction mixture to carry out separation of layers. The organic layer was washed with water and saturated brine and dried with anhydrous magnesium sulfate. The solvent was evaporated, and the thus obtained residue was recrystallized from EtOH to obtain 139 mg of (2Z)-N-(2-amino-2-oxoethyl)-2-{1-[4-(benzyloxy)-2-(trifluoromethyl)benzoyl]-4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene} acetamide.

In the same manner as in Example 1, the Examples 2 to 16 as shown in Table 10 were produced using respective corresponding materials.

Example 17

A 150 mg portion of the compound of Example 20 was dissolved in 3.5 ml of THF, mixed with 0.3 ml of thionyl chloride and 2 to 3 drops of DMF and stirred at room temperature for 1 hour. The solvent was evaporated under a reduced pressure, and thionyl chloride was further removed by azeotropic evaporation using toluene. The thus obtained residue was dissolved in THF, and this solution was added dropwise to aqueous ammonia. Separation of layers was carried out by adding EtOAc to the reaction mixture. The organic layer was washed with saturated brine and then dried with anhydrous magnesium sulfate. The thus obtained crude product was recrystallized from iPrOH-diisopropyl ether mixed solvent to obtain 126 mg of (2Z)-2-{1-[4-(benzyloxy)-2-(trifluoromethyl)benzoyl]-4,4-difluoro-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene}acetamide.

In the same manner as in Example 17, the Example 18 as shown in Table 10 was produced using respective corresponding materials. Also, in the same manner as in Reference Example 12, the Examples 19 and 20 as shown in Table 10 were produced using respective corresponding materials.

Example 21

A 325 mg portion of the compound of Example 6 was dissolved in 5 ml of 1,2-dichloroethane, mixed with 148 mg of m-chlorobenzoic acid under ice-cooling, and stirred at room temperature for 4 hours. The reaction mixture was mixed with 10% (w/v) Na₂S₂O₃·5H₂O aqueous solution, water and chloroform to carry out separation of layers. The organic layer was washed with saturated sodium bicarbonate aqueous solution and dried with anhydrous sodium sulfate, the solvent was evaporated, and then the thus obtained crude product was subjected to a silica gel column chromatography, eluted with chloroform-MeOH (23:2) and concentrated under a reduced pressure to obtain 121 mg of (2Z)-N-(2-amino-2-oxoethyl)-2-{4,4-difluoro-1-[4-(propylsulfinyl)benzoyl]-1,2,3,4-tetrahydro-5H-1-benzazepin-5-ylidene} acetamide.

In the same manner as in Example 21, the Example 22 as shown in Table 10 was produced using respective corresponding materials. Also, the Examples 23 to 147 as shown in Tables 11 to 18 were produced using respective corresponding materials, by the aforementioned production methods or the methods described in Examples, or methods obvious to those skilled in the art or modified methods thereof.

In this connection, signs in the tables represent the following meanings (the same shall apply hereinafter).

Ex: example number,

R^C: substituent group in the general formula,

Et: ethyl, nBu: normal butyl, Ph: phenyl, Py: pyridyl, Bn: benzyl, Gly: carbamoylmethylamino (-NHCH₂CONH₂), Etha: 2-hydroxyethylamino (-

NHCH₂CH₂OH), Car: amino (-NH₂). In this connection, the numeral before each substituent group represents the substituting position. Illustratively, for example, - NHPh(2-OH) means 2-hydroxyphenylamino, and -NHCH₂(2-Py) means pyridine-2-ylmethylamino.

(Table 10)

Ex	R ^A	R ^B	R ^C	MS(+)
1	-CF ₃	Bn-O-	-CH2-CONH2	574
2	-CF ₃	Bn-O-	-(CH ₂) ₂ -OH	561
3	-CF ₃	cPr-CH ₂ O-	-CH ₂ -CONH ₂	538
4	-CF ₃	cPr-CH ₂ O-	-(CH ₂) ₂ -OH	525
5	-Cl	nPr-S-	-CH ₂ -CONH ₂	508
6	-CF ₃	nPr-S-	-CH ₂ -CONH ₂	542
7	-CF ₃	nPr-O-	-CH ₂ -CONH ₂	526
8	-CF ₃	nPr-O-	-(CH ₂) ₂ -OH	513
9	-CF ₃	nBu-O-	-CH ₂ -CONH ₂	540
10	-CF ₃	nBu-O-	-(CH ₂) ₂ -OH	527
11	-CF ₃	iBu-O-	-CH ₂ -CONH ₂	540
12	-CF ₃	iBu-O-	-(CH ₂) ₂ -OH	527
13	-CI	iBu-O-	-CH2-CONH2	506
14	-CF ₃	nPr-N(Me)-	-CH ₂ -CONH ₂	539
15	-CF ₃	Me ₂ NOCCH ₂ -O-	-CH2-CONH2	569
16	-CF ₃	nPr-O-	-H	469
17	-CF ₃	Bn-O-	-H_	517
18	-CF ₃	nPr-N(Me)-	-H	482
19	-CF ₃	НО-	-CH2-CONH2	484
20	-CF ₃	НО-	-H_	427
21	-CF ₃	nPr-S(=O)-	-CH2-CONH2	558
22	-CF ₃	nPr-S(=O) ₂ -	-CH2-CONH2	574

(Table 11)

Ex	R ^B	R^{D}	MS(+)_
23	-OnPr	F	544
24	-OnPr	Cl	560
25	-OnPr	Br	604,606
26	-O-CH ₂ C(CH ₃)=CH ₂	Н	538
27	-O-(CH ₂) ₂ CH ₂ F	H	544
28	(S)-O-CH ₂ CHFCH ₃	H	544
29	(R)-O-CH₂CHFCH₃	. H	544
30	(S)-O-CH₂CHFCH₃	F	562
31	(R)-O-CH ₂ CHFCH ₃	F	562
32	-O-CH ₂ CHFCH ₃	H	544
33	-O-CH ₂ CF ₂ CH ₃	H	562
34	-O-CH ₂ CF ₂ CH ₃	F	580
35	-N(Me)Et	H	525
36	-N(Et)nPr	Н	553
37	-N(Me)nBu	H	553
38	-N(Me)iBu	Н	- 553
39	-NnPr ₂	H	567
40	-SEt	H	528
41	-SiBu	H	556
42	-SCH=CH ₂	H	526
43	-SCH ₂ CH ₂ F	Н	546
44	-S(CH ₂) ₂ CH ₂ F	Н	560
45	-SCH2CHFCH3	Н	560

(Table 12)

Ex	$R^{\mathbf{B}}$	R^{D}	MS(+)
46	-OnPr	F	531
47	-OnPr	Cl	547
48	-O-CH ₂ cPr	Н	525
49	-O-(CH ₂) ₂ CH ₂ F	Н	531
50	-O-CH ₂ CHFCH ₃	Н	531
51	-O-CH ₂ CF ₂ CH ₃	Н	549
52	(S)-O-CH ₂ CHFCH ₃	. н	531
53	(R)-O-CH ₂ CHFCH ₃	H	531
54	(S)-O-CH2CHFCH3	F	549
55	(R)-O-CH2CHFCH3	F	549
56	-O-CH ₂ CF ₂ CH ₃	F	567
57	-N(Me)(CH ₂) ₂ CH ₂ F	H	544
58	-N(Et)nPr	H	540
59	-SCH=CH ₂	Н	513
60	-SCH ₂ CH ₂ F	Н	533
61	-S(CH ₂) ₂ CH ₂ F	H	547

(Table 13)

Ex	RB	$\mathbb{R}^{\mathbb{D}}$	MS(+)
62	-OnPr	F	487
63	-OnPr	Cl	503
64	-OnPr	Br	547,549
65	-O-(CH ₂) ₂ CH ₂ F	Н	487
66	-O-CH ₂ CHFCH ₃	Н	487
67	-O-CH ₂ CF ₂ CH ₃	H	505
68	-O-CH ₂ CF ₂ CH ₃	F	523
69	(S)-O-CH ₂ CHFCH ₃	H	487
70	(R)-O-CH ₂ CHFCH ₃	H	487
71	(S)-O-CH ₂ CHFCH ₃	F	505
72	(R)-O-CH ₂ CHFCH₃	F	505
73	-N(Me)(CH ₂) ₂ CH ₂ F	Н	500
74	-N(Me)CH ₂ CF ₂ CH ₃	H	518
75	-N(Et)nPr	Н	496
76	-N(Et)(CH ₂) ₂ CH ₂ F	Н	514
77	-NnPr ₂	Н	510

Ex	R ^C	$\mathbb{R}^{\mathbb{D}}$	MS(+)
78	-NH(CH ₂) ₂ OMe	Н	527
79	-NHC(Me),CH2OH	H.	541
80	-NH(CH ₂)F	Н	515
81	-NH(CH₂)₃OH	Н	527
82	-NH(CH ₂) ₃ F	Н	529
83	-NHCH,CH(OH)CH;OH	Н	543
84	-NHCH-CH(R-OH)CH-OH	Н	543
85	-NHCH/CH(S-OH)CH/OH	Н	543
86	-NHCH,CH(R-OH)CH,OH	F	561
87	-NH(CH ₂) ₂ O(CH ₂) ₂ OH	Н	557
88	-NH(CH ₂) ₂ NMe ₂	Н	540
89	-NH(CH2)2CONH2	Н	540
90	-NHCH(CONH ₂) ₂	Н	569
91	-NHCH-CONHMe	Н	540
92	-NHCH2CONMe2	Н	554
93	-NH(CH ₂) ₂ NHCOCH ₃	Н	554
94	-N(CH ₂ CH ₂ OH) ₂	Н	557
95	-N(CH2CONH2)2	Н	583
96	-NHPh	Н	545
97	-NHPh(2-OH)	Н	561
98	-NHPh(3-OH)	Н	561
99	-NHPh(4-OH)	. H	561
100	-NHPh(2-CONH ₂)	Н	588
101	-NHPh(3-CONH ₂)	Н	588
102	-NHPh(4-CONH ₂)	Н	588
103	-NHPh(3-SO ₂ NH ₂)	Н	624
104	-NHPh(4-SO ₂ NH ₂)	Н	624
105	-NHPh(3-NHCOMe)	Н	602

(Table 15)

	1110 013		
Ex	R^{C}	R^{D}	MS(+)
106	-NHCH,Ph(3-OH)	Н	575
107	-NHCH ₂ Ph(4-OH)	Н	575
108	-NHCH2Ph(4-SO2NH2)	H	638
109	-NHCH ₂ (2-Py)	Н	560
110	-H-O	Н	580
111	-H_O	Н	596
112	-H_0	Н	594
113	-H o	Н	610

(Table 16)

Ex	R ^C	R^{D}	MS(+)
114	-N→OH	Н	539
115	-N OH	Н	553
116	-N CONH ₂	Н	580
117	-N-CONH ₂	Н	580
118	_NF	Н	555
119	-N F	Н	573
120	-NOH	Н	567
121	-N_NH	Н	552
122	_N_O	Н	539

(Table 17)

Ex	R ^B	R ^C	R ^D	MS(+)
123	-O-(CH ₂) ₂ CH ₂ F	-NHCH,CH(R-OH)CH,OH	H	561
124	-O-(CH ₂) ₂ CH ₂ F	-NHCH2CH(S-OH)CH2OH	H	561
125	-O-(CH ₂) ₂ CH ₂ F	-NH(CH₂)₂CONH₂	Н	558
126	-O-(CH ₂) ₂ CH ₂ F	-NOOH	н	628
127	(S)-O-CH ₂ CHFCH ₃	-NH(CH ₂) ₂ CONH ₂	Н	558
128	(R)-O-CH2CHFCH3	-NH(CH ₂) ₂ CONH ₂	H	558
129	(S)-O-CH ₂ CHFCH ₃	-NHCH2CH(S-OH)CH2OH	H	561
130	(R)-O-CH₂CHFCH₃	-NHCH2CH(S-OH)CH2OH	Н	561
131	(S)-O-CH2CHFCH3	-NHCH2CH(R-OH)CH2OH	Н	561
132	(R)-O-CH2CHFCH3	-NHCH2CH(R-OH)CH2OH	Н	561
133	(S)-O-CH2CHFCH3	-NH(CH ₂) ₂ CONH ₂	F	576
134	(R)-O-CH2CHFCH3	-NH(CH₂)2CONH2	F	576
135	(S)-O-CH2CHFCH3	-NHCH ₂ CH(R-OH)CH ₂ OH	F	579
136	(R)-O-CH2CHFCH3	-NHCH2CH(R-OH)CH2OH	F	579
137	-O-CH ₂ CF ₂ CH₃	-NHCH2CH(R-OH)CH2OH	Н	579
138	-O-CH ₂ CF ₂ CH ₃	-NHCH2CH(S-OH)CH2OH	H	579
139	-O-CH ₂ CF ₂ CH ₃	-NH(CH ₂) ₂ CONH ₂	H	576
140	-O-CH ₂ CF ₂ CH ₃	-NH(CH ₂) ₂ CONH ₂	F	594
141	-O-CH ₂ CF ₂ CH ₃	-NHCH ₂ CH(S-OH)CH ₂ OH	F	597
142	-O-CH ₂ CF ₂ CH ₃	-NHCH ₂ CH(R-OH)CH ₂ OH	F	-597
143	-SEt	-NH(CH ₂) ₂ CONH ₂	Н	542
144	-SEt	-NHCH(CONH ₂) ₂	Н	571
145	-SEt	-NHPh(3-CONH ₂)	Н	590

(Table 18)

In the following, NMR data of some Example compounds are shown in Table

19.

(Table 19)

Ex	NMR
	235-2.55(1H,br),2.60-2.80(1H,br),3.00-3.15(1H,br),3.76(2H,s),4.75-
1	4.90(1H,br),5.09(2H,s),6.45(1H,s),6.73(1H,d,)=7.8Hz),6.87(1H,d,)=7.8Hz),7.03(1H,dd,)=7.8,2.4Hz),7.1
	0-7.19(2H,m),7.24-7.40(9H,m),8.68(1H,t, <i>J</i> =5.7Hz).
	2.25-2.55(1H,br),2.60-2.80(1H,br),3.05-3.20(1H,br),3.20-3.25(2H,m),3.42-
2	3.50(2H,m),4.72(1H,t, <i>)</i> =5.4Hz),4.75-
2	4.90(1H,br),5.09(2H,s),6.39(1H,s),6.72(1H,d, <i>)=</i> 7.8Hz),6.87(1H,d, <i>)=</i> 7.3Hz),7.04(1H,dd, <i>)=</i> 2.0,8.3Hz),7.1
	6(1H,t, <i>J</i> =7.6Hz),7.22-7.42(8H,m),8.46(1H,t, <i>J</i> =5.4Hz).
	0.24-0.30(2H,m),0.49-0.58(2H,m),1.08-1.20(1H,m),2.33-2.45(1H,br),2.60-2.97(1H,br),3.02-
3	3.29(1H,br),3.68-3.88(4H,m),4.60-
]	5.05(1H,br),6.44(1H,s),6.71(1H,d,J=8.8Hz),6.85(1H,d,J=8.8Hz),693(1H,dd,J=2.0,8.8Hz),7.11-
	7.38(6H,m),8.48(1H,t,J=5.4Hz).
	0.24-0.31(2H,m),0.48-0.56(2H,m),1.09-1.21(1H,m),2.27-2.46(1H,br),2.65-2.90(1H,br),3.00-
4	3.26(3H,m),3.43-3.52(2H,m),3.80(2H,d,J=6.8Hz),4.73(1H,d,J=5.3Hz),4.75-
7	4.92(1H,br),6.39(1H,s),6.71(1H,d,J=7.3Hz),6.84(1H,d,J=8.8Hz),6.93(1H,dd,J=2.5,8.8Hz),7.13-
	7.18(2H,m),7.24(1H,t,J=7.3Hz)7.30-7.34(1H,m),8.48(1H,t,J=5.3Hz).
	0.92(3H,t,)=7.6Hz),1.46-1.55(2H,m),2.24-2.50(1H,br),2.65-2.84(1H,br),2.89-2.93(2H,m),3.04-
5	3.22(1H,br),3.75(2H,s),4.70-
	4.92(1H,br),6.37(1H,s),6.87(1H,s),6.94(1H,d,J=7.6Hz),7.01(1H,d,J=8.0Hz),7.14-7.53(6H,m),8.62(1H,s).
· .	0.93(3H,t,)=7.2Hz),1.48-1.57(2H,m),2.28-2.52(1H,br),2.63-2.87(1H,br),2.94-2.97(2H,m),3.08-
6	3.20(1H,br),3.73-3.76(2H,m),4.73-4.88(1H,br),6.48(1H,s),6.73(1H,d,J=8.0Hz),6.84(1H,d,J=8.0Hz),7.14-
	7.76(7H,m),8.69(1H,t,J=5.2Hz).
	0.92(3H,t,)=7.3Hz),1.62-1.72(2H,m),2.30-2.50(1H,br),2.60-2.80(1H,br),3.00-
7	3.10(1H,br),3.76(2H,s),3.90(2H,t,=6.6Hz),4.70-
	4.90(1H,br),6.45(1H,s),6.72(1H,d,)=7.8Hz),6.85(1H,d,)=7.8Hz),6.94(1H,dd,)=2.1,7.6Hz),7.10-
	7.38(6H,m),8.68(1H,t,)=5.4Hz).
	0.92(3H,t,=7.3Hz),1.62-1.72(2H,m),2.30-2.50(1H,br),2.60-2.80(1H,br),3.00-
8	3.20(1H,br),3.23(2H,t, J=5.9Hz),3.44-3.50(2H,m),3.90(2H,t, J=6.6Hz),4.72(1H,t, J=5.4Hz),4.75-
	4.86(1H,br),6.40(1H,s),6.71(1H,d,)=7.8Hz),6.85(1H,d,)=8.3Hz),6.95(1H,dd,)=2.5,8.8Hz),7.10-
	7.18(2H,m),7.25(1H,t,=7.1Hz),7.30-7.34(1H,m),8.46(1H,t,=5.6Hz).
	0.89(3H,t,)=7.3Hz),1.31-1.42(2H,m),1.57-1.67(2H,m),2.30-2.50(1H,br),2.70-2.85(1H,br),3.00-
9	320(1H,br),3.76(2H,s),3.94(2H,t,)=6.6Hz),4.65-
	4.95(1H,br),6.45(1H,s),6.72(1H,d, =7.8Hz),6.85(1H,d, =8.8Hz),6.94(1H,dd, =2.4,8.8Hz),7.10-
	7.20(3H,m),7.22-7.32(2H,m),7.33-7.37(1H,m),8.68(1H,t,)=5.3Hz).
	0.89(3H,t,)=7.4Hz),1.32-1.42(2H,m),1.58-1.67(2H,m),2.25-2.45(1H,br),2.60-2.80(1H,br),3.00-3.15(1H,br),3.20-3.30(2H,m),3.44-3.50(2H,m),3.94(2H,t,)=6.4Hz),4.73(1H,t,)=5.2Hz),4.75-
10	3.15(1H,0r,5.20-3.50(2H,m),5.44-3.50(2H,m),5.94(2H,G,-0.4H2),4.75(1H,G,-3.2H2),4.75- 4.87(1H,br),6.39(1H,s),6.71(1H,d,-7.8Hz),6.84(1H,d,-8.8Hz),6.95(1H,dd,-2.5,8.8Hz),7.12-
	4.8/(1H,07)0.39(1H,5)0.71(1H,0,7=7.8H2)0.84(1H,0,7=8.8H2)0.95(1H,00,7=2=3,0.8H2),7.12- 7.18(2H,m),7.21-7.26(1H,m),7.30-7.33(1H,m),8.46(1H,t,7=5.6Hz).
	0.92(6H,d, F=6.8Hz),1.89-2.00(1H,m),2.30-2.50(1H,br),2.60-2.80(1H,br),3.00-3.20(1H,br),3.70-
	3.82(4H,m),4.75-
11	4.85(1H,br),6.45(1H,s),6.72(1H,d, <i>)=</i> 7.9Hz),6.86(1H,d, <i>)=</i> 8.8Hz),6.95(1H,dd, <i>)=</i> 2.4,8.3Hz),7.12-
	7.19(3H,m),7.23-7.30(2H,m),7.36(1H,dd, <i>)=</i> 7.8Hz,1.5Hz),8.68(1H,t, <i>)=</i> 5.6Hz).
	1.13(2).13(1.3)(1.3)(1.3)(1.3)(1.3)(1.3)(1.3)(

(Table 19, continued)

Ex	NMR
	0.92(6H,d,)=6.4Hz),1.89-2.00(1H,m),2.30-2.50(1H,br),2.60-2.80(1H,br),3.00-3.15(1H,br),3.19-
12	3.25(2H,m),3.44-3.50(2H,m),3.72(2H,d,)=6.3Hz),4.73(1H,t,)=5.1Hz),4.76-
12	4.88(1H,br),6.40(1H,s),6.71(1H,d,1=7.3Hz),6.85(1H,d,1=8.8Hz),6.96(1H,dd,1=2.5,8.3Hz),7.13-
	7.18(2H,m),722-727(1H,m),732(1H,dd,,=7.8Hz,1.5Hz),8.46(1H,t,,=5.6Hz).
	0.91(6H,d,)=6.8Hz),1.86-1.98(1H,m),2.25-2.50(1H,br),2.60-2.80(1H,br),3.00-
13	3.15(1H,br),3.67(2H,d,)=6.3Hz),3.70-3.78(2H,br),4.73-4.90(1H,br),6.35(1H,s),6.63-6.69(1H,m),6.89-
	6.96(3H,m),7.11-7.20(2H,m),7.22-7.33(3H,m),8.62(1H,s).
	0.80(3H,t,)=7.2Hz),1.40-1.45(2H,m),2.27-2.53(1H,br),2.55-2.77(1H,br),2.86(3H,s),2.92-
14	3.15(1H,br),3.24(2H,s),3.75(2H,s),4.71-
14	5.05(1H,br),6.44(1H,s),6.58(1H,d,J=8.4Hz),6.67(1H,d,J=8.4Hz),6.71(1H,d,J=7.6Hz),6.77(1H,s),7.14-
	736(5H,m),8.64(1H,s).
	2.30-2.50(1H,br),2.65-2.85(1H,br),2.80(3H,s),2.92(3H,s),3.00-3.20(1H,br),3.70-3.82(2H,m),4.75-
15	4.90(1H,br),4.86(2H,s),6.44(1H,s),6.73(1H,d, <i>J</i> =7.8Hz),6.83(1H,d, <i>J</i> =8.3Hz),6.90(1H,dd, <i>J</i> =2.4,8.3Hz),7.1
	1-720(3H,m),724-730(2H,m),736(1H,dd,=73Hz,1.4Hz),8.68(1H,t,=5.7Hz).
	0.92(3H,t,)=7.8Hz),1.61-1.71(2H,m),2.35-2.55(1H,br),2.60-2.80(1H,br),3.00-
16	3.20(1H,br),3.90(2H,t, <i>J</i> =6.4Hz),4.70-
10	4.90(1H,br),6.38(1H,s),6.72(1H,d,)=7.8Hz),6.84(1H,d,)=8.7Hz),6.96(1H,dd,)=2.5,8.6Hz),7.10-
	7.18(2H,m),7.22-7.27(1H,m),7.28-7.31(1H,m),7.35(1H,s),7.87(1H,s).
00	230-2.55(1H,br),2.60-2.80(1H,br).3.05-3.25(1H,br),4.75-
17	4.95(1H,br),5.09(2H,s),6.38(1H,s),6.73(1H,d, <i>J</i> =7.8Hz),6.86(1H,d, <i>J</i> =8.7Hz),7.05(1H,dd, <i>J</i> =2.4,8.4Hz),7.1
	3-7.18(1H,m),7.22-7.42(9H,m),7.88(1H,s).
18	0.81(3H,t,)=7.2Hz),1.40-1.46(2H,m),2.24-2.52(1H,br),2.57-2.78(1H,br),2.85(3H,s),2.95-
	3.17(1H,br),3.23(2H,s),4.70-5.02(1H,br),6.36(1H,s),6.62-6.76(4H,m),7.16-7.34(4H,m),7.84(1H,s).
	230-2.50(1H,br),2.55-2.80(1H,br),3.00-3.20(1H,br),3.75(2H,s),4.70-4.90(1H,br),6.47(1H,s),6.66-
19	6.76(3H,m),7.00(1H,d, <i>J</i> =1.5Hz),7.10-7.19(2H,m),7.22-
	730(2H,m),735(1H,d,=7.8Hz),8.65(1H,t,=5.6Hz),103(1H,s).
	230-2.50(1H,br),2.55-2.80(1H,br),3.00-3.20(1H,br),4.70-4.90(1H,br),6.41(1H,s),6.67-
20	6.74(3H,m),7.00(1H,s),7.15(1H,td)=1.4,7.8Hz),7.24(1H,t,)=7.6Hz),7.27-
	7.32(1H,m),7.34(1H,s),7.85(1H,s),10.3(1H,s).
	0.87(3H,t,)=7.2Hz),1.19-1.27(1H,m),1.45-1.58(1H,m),2.18-2.52(1H,br),2.65-2.78(1H,br),2.93-
21	3.00(2H,m),3.06-3.25(1H,br),3.74-3.76(2H,m),4.75-4.92(1H,br),6.55(1H,s),6.73(1H,d,J=7.6Hz),7.12-
	7.15(3H,m),7.24-7.33(2H,m),7.36(1H,dd,J=1.6,7.2Hz),7.71(1H,d,J=8.0Hz),7.98(1H,s),8.70(1H,s).
	0.84(3H,t,)=7.6Hz),1.38-1.47(2H,m),2.15-2.54(1H,br),2.67-2.90(1H,br),3.15-3.30(1H,br),3.34-
22	3.52(2H,m),3.75-3.77(2H,m),4.75-4.90(1H,br),6.61(1H,s),6.74(1H,d,J=8.0Hz),7.13-7.17(3H,m),7.26-
	739(2H,m),737-739(1H,m),7.97(1H,d,)=8.4Hz),8.16(1H,s),8.71(1H,s).
20	132(3H,dd,J=6.4,29.2Hz),231-2.43(1H,br),2.60-2.80(1H,br),3.18-3.27(1H,br),3.20-3.34(2H,m),4.00-
30	4.37(2H,m),4.64-5.10(2H,m),6.56(1H,s),6.73-6.80(1H,m),6.87(1H,d,)=8.8Hz),7.02-
	7.08(2H,m),7.14(1H,s),7.24-7.26(2H,m),7.32(1H,s),8.60-8.64(1H,br).

(Table 19, continued)

133(3H,ddl=63,293Hz),233-247(1H,br),259-283(1H,br),303-325(1H,br),372-385(2H,m)),402-424(2H,m),472-484(1H,br),486-5.07(1H,m),656(1H,s),674-6.80(1H,m),688(1H,d,l=8.8Hz),7.00-7.08(2H,m),7.14(1Hs),721-726(2H,m),7.32(1Hs),865(1H,gl=6.4Hz). 167(3H,t,l=19.5Hz),230-248(1H,br),246-290(1H,br),3.08-334(3H,m),339-400(2H,m),432(2H,t)=12.7Hz),470-478(2H,m),638(1H,s),672(1H,d,l=7.8Hz),6.89(1H,d,l=8.8Hz),7.04(1H,dd,l=2.4,8.8Hz),7.15(1H,dt,l=1.5,7.8Hz),722-734(3H,m),847(1H,t,l=5.3Hz). 132(3H,dd,l=6.423.5Hz),236-247(1H,br),2.65-2.76(1H,br),3.18-3.30(3H,m),3.43-3.49(2H,m),4.00-420(2H,m),4.68-80(2H,m),6.39(1H,s),6.72(1H,d,l=8.8Hz),6.87(1H,d,l=8.8Hz),6.89(1H,dd,l=2.4,8.8Hz),7.15(1H,dt,l=1.4,8.8Hz),7.21-727(2H,m),7.32(1H,dd,l=1.4,8.8Hz),8.46(1H,t,l=5.8Hz). 132(3H,dd,l=6.823.9Hz),2.37-2.46(1H,br),2.65-2.83(1H,br),3.19-3.28(3H,m),3.44-3.50(2H,m),4.00-420(2H,m),4.69-9.05(3H,m),6.39(1H,s),6.73(1H,d,l=8.8Hz),6.87(1H,d,l=8.8Hz),6.99(1H,dd,l=2.4,8.8Hz),7.15(1H,dt,l=1.4,8.8Hz),7.21-727(2H,m),7.32(1H,dd,l=1.4,8.8Hz),8.46(1H,t,l=5.4Hz). 133(3H,dd,l=5.9,29.8Hz),231-2.46(1H,br),2.61-2.84(1H,br),3.18-3.26(2H,m),3.44-3.50(2H,m),4.01-422(2H,m),4.74(1H,t,l=5.3Hz),4.76-4.85(1H,br),4.65-0.66(1H,d,l=8.8Hz),8.46(1H,t,l=5.9Hz). 132(3H,dd,l=5.9,29.8Hz),2.32-2.46(1H,br),2.61-2.84(1H,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02-422(2H,m),4.74(1H,t,l=5.3Hz),4.76-4.85(1H,br),2.61-2.84(1H,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02-422(2H,m),4.74(1H,t,l=5.3Hz),4.76-4.85(1H,br),2.61-2.84(1H,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02-422(2H,m),4.74(1H,t,l=5.3Hz),4.76-4.85(1H,br),2.61-2.84(1H,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02-422(2H,m),4.74(1H,t,l=5.3Hz),61-2.71(2H,m),2.01-2.84(1H,br),3.05-3.27(3H,m),3.43-3.1(2H,m),3.02-3.1(2H,m),3.02-3.1(2H,m),3.02-3.1(2H,m),3.03-3.27(2H,m),3.32-3.40(2H,m),3.11-2.11-2.11-2.11-2.11-2.11-2.11-2.11-	Ex	NMR
424(2H,m),4.72-4.84(1H,br),4.86-5.07(1H,m),6.56(1H,s),6.74-6.80(1H,m),6.88(1H,d,j=8.8Hz),7.00-7.08(2H,m),7.14(1H,s),721-7.26(2H,m),7.32(1H,s),8.65(1H,t,j=5.4Hz). 1.67(3H,t,j=19.5Hz),2.30-2.48(1H,br),2.46-2.90(1H,br),3.08-3.34(3H,m),3.39-4.00(2H,m),4.32(2H,t,j=12.7Hz),4.70-4.78(2H,m),6.88(1H,s),6.72(1H,d,j=7.8Hz),6.89(1H,d,j=8.8Hz),7.04(1H,dd,j=2.4,8.8Hz),7.15(1H,dt,j=1.5,7.8Hz),7.22-7.34(3H,m),8.47(1H,t,j=5.3Hz). 1.32(3H,dd,j=6.4,23.5Hz),2.36-2.47(1H,br),2.65-2.76(1H,br),3.18-3.30(3H,m),3.43-3.49(2H,m),4.00-420(2H,m),6.39(1H,s),6.72(1H,d,j=8.8Hz),8.67(1H,d,j=8.8Hz),6.98(1H,dd,j=2.4,8.8Hz),7.15(1H,dt,j=1.4,8.8Hz),8.48(1H,t,j=5.8Hz). 1.32(3H,dd,j=6.8,23.9Hz),2.37-2.46(1H,br),2.65-2.83(1H,br),3.19-3.28(3H,m),3.44-3.50(2H,m),4.00-420(2H,m),4.69-420(2H,m),4.69-420(2H,m),4.69-420(2H,m),4.69-420(2H,m),4.69-420(2H,m),4.69-420(2H,m),4.69-420(2H,m),6.39(1H,s),6.73(1H,d,j=8.8Hz),8.46(1H,t,j=5.4Hz). 1.33(3H,dd,j=5.9.29.8Hz),2.31-2.46(1H,br),2.61-2.84(1H,br),3.18-3.26(2H,m),3.44-3.50(2H,m),4.01-42(2H,m),6.86(1H,d,j=8.8Hz),7.01-708(1H,m),7.19(2H,dd,j=2.9,8.8Hz),7.01-708(1H,m),6.80(1H,d,j=8.8Hz),7.01-708(1H,m),7.19(2H,dd,j=2.9,8.8Hz),7.15(1H,d,j=2.9Hz),7.66(1H,d,j=8.8Hz),8.46(1H,t,j=5.9Hz). 1.32(3H,dd,j=5.9.29.8Hz),2.32-2.46(1H,br),2.61-2.84(1H,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02-42(2H,m),6.87(1H,d,j=8.8Hz),7.10-708(1H,m),6.80(1H,d,j=8.8Hz),7.10-708(1H,m),6.80(1H,d,j=8.8Hz),7.10-708(1H,m),7.19(2H,dd,j=2.9,8.8Hz),7.12-714(1H,d,j=2.9Hz),7.67(1H,d,j=8.8Hz),8.47(1Ht,j=5.4Hz). 1.32(3H,dd,j=5.9.28.8Hz),7.32(4H,d,j=2.9Hz),7.67(1H,d,j=8.8Hz),8.47(1Ht,j=5.4Hz). 1.32(3H,dd,j=5.2.36(1H,m),3.90(2H,t,j=7.3Hz),4.54(1H,t,j=5.4Hz). 1.32(3H,m),3.52-3.61(1H,m),3.90(2H,t,j=7.3Hz),4.54(1H,t,j=5.4Hz). 1.32(2H,m),3.52-3.61(1H,m),3.90(2H,t,j=7.3Hz),4.54(1H,t,j=5.4Hz). 1.33(2H,m),3.52-3.61(1H,m),3.90(2H,t,j=7.3Hz),4.54(1H,t,j=5.4Hz). 1.33(2H,m),3.52-3.61(1H,m),3.90(2H,t,j=7.3Hz),4.54(1H,t,j=5.4Hz). 1.33(2H,m),3.52-3.61(1H,m),3.90(2H,t,j=7.3Hz),4.54(1H,t,j=5.4Hz). 1.33(2H,m),3.52-3.61(1H,m),3.90(2H,t,j=7.3Hz),4.54(1H,t,j=5.4Hz). 1.		1.33(3H,dd1=6.3,29.3Hz),2.33-2.47(1H,br),2.59-2.83(1H,br),3.03-3.25(1H,br),3.72-3.85(2H,m),4.02-
1.67(3H,t,l=19.5Hz),230-2.48(1H,br),2.46-2.90(1H,br),3.08-3.34(3H,m),3.39- 4.00(2H,m),6.38(1H,d,l=7.8Hz),6.89(1H,d,l=8.8Hz),7.04(1H,dd,l=2.4,8.8Hz),7.15(1H,dt,l=1.5,7.8Hz),7.22-7.34(3H,m),8.47(1H,t,l=5.3Hz). 1.32(3H,dd,l=6.4,23.5Hz),2.36-2.47(1H,br),2.65-2.76(1H,br),3.18-3.30(3H,m),3.43-3.49(2H,m),4.00- 4.20(2H,m),4.68- 5.06(3H,m),6.39(1H,s),6.72(1H,d,l=8.8Hz),8.46(1H,t,l=5.8Hz),6.98(1H,dd,l=2.4,8.8Hz),7.15(1H,dt,l=1.4,8.8Hz),8.46(1H,t,l=5.8Hz),6.98(1H,dd,l=2.4,8.8Hz),7.15(1H,dt,l=1.4,8.8Hz),8.46(1H,t,l=5.8Hz),6.98(1H,dd,l=2.4,8.8Hz),7.15(1H,dt,l=1.4,8.8Hz),8.46(1H,t,l=5.8Hz),6.99(1H,dd,l=2.4,8.8Hz),7.15(1H,dt,l=1.4,8.8Hz),8.46(1H,t,l=5.8Hz),6.99(1H,dd,l=2.4,8.8Hz),7.15(1H,dt,l=1.4,8.8Hz),7.21-7.27(2H,m),4.00-4.20(2H,m),4.69-5.05(3H,m),6.39(1H,s),6.73(1H,dd,l=1.4,8.8Hz),8.46(1H,t,l=5.4Hz). 1.33(3H,dd,l=5.9,2.98Hz),2.31-2.46(1H,br),2.61-2.84(1H,br),3.18-3.26(2H,m),3.44-3.50(2H,m),4.01-42.2(2H,m),4.74(1H,t,l=5.3Hz),7.01-7.08(1H,m),6.58(1H,d,l=8.8Hz),7.01-7.08(1H,m),6.58(1H,d,l=8.8Hz),7.01-7.08(1H,m),6.58(1H,d,l=8.8Hz),7.01-7.08(1H,m),6.58(1H,d,l=8.8Hz),7.01-7.08(1H,m),3.01-3.23(2H,dd,l=2.9,8.8Hz),7.25(1H,d,l=2.9Hz),7.66(1H,d,l=8.8Hz),8.46(1Ht,l=5.9Hz). 1.32(3H,dd,l=5.9,2.98Hz),2.32-2.46(1H,br),2.61-2.84(1H,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02-42.2(2H,m),4.74(1H,l=5.3Hz),4.76-4.85(1H,br),3.05-3.27(3H,m),6.30(1H,t,l=5.4Hz). 1.32(3H,dd,l=5.2,3.8Hz),7.24(1H,d,l=2.9Hz),7.67(1H,d,l=8.8Hz),8.47(1H,t,l=5.4Hz). 1.69(3H,t,l=1.96Hz),2.31-2.46(1H,br),2.61-2.83(1H,br),3.05-3.27(3H,m),3.43-3.50(2H,m),7.19(2H,dd,l=2.9,8.8Hz),7.31(1H,d,l=2.9Hz),8.43(1H,t,l=5.4Hz). 1.69(3H,t,l=1.96Hz),2.31-2.46(1H,br),2.65-2.81(1H,br),2.99-3.17(3H,m),3.32-3.40(2H,m),3.52-3.61(1H,m),3.90(2H,t,l=7.3Hz),4.54(1H,t,l=5.9Hz),4.75(1H,d,l=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,l=8.8Hz),7.34(1H,d,l=1.8,8Hz),8.45(1H,t,l=5.4Hz). 1.99(3H,t,l=6.8Hz),1.61-1.71(2H,m),2.30-2.46(1H,br),2.61-2.81(1H,br),3.00-3.21(3H,m),3.31-3.30(2H,m),3.31-3.40(2H,m),6.52(1H,m),3.31-3.30(2H,m),3.31-3.30(2H,m),3.21-3.45(1H,br),2.61-2.81(1H,br),3.00-3.21(3H,m),3.31-3.30(2H,	31	
4.00(2H,m),4.32(2H,t)=12.7Hz),4.7.0- 4.78(2H,m),6.38(1H,s),6.72(1H,d)=7.8Hz),6.89(1H,d,)=8.8Hz),7.04(1H,dd,)=2.4,8.8Hz),7.15(1H,dt,)=1. 5.7,8Hz),7.22-7.34(3H,m),8.47(1H,t)=5.3Hz). 1.32(3H,dd,)=6.4,23.5Hz),2.36-2.47(1H,br),2.65-2.76(1H,br),3.18-3.30(3H,m),3.43-3.49(2H,m),4.00- 4.20(2H,m),4.68- 5.06(3H,m),6.39(1H,s),6.72(1H,d,)=8.8Hz),6.87(1H,d,)=8.8Hz),6.98(1H,dd,)=2.4,8.8Hz),7.15(1H,dt,)=1. 4,8.8Hz),7.21-7.27(2H,m),7.32(1H,dd,)=1.4,8.8Hz),8.46(1H,t,)=5.8Hz). 1.32(3H,dd,)=6.82(3.9Hz),2.37-2.46(1H,br),2.65-2.83(1H,br),3.19-3.28(3H,m),3.44-3.50(2H,m),4.00- 4.20(2H,m),4.69- 5.05(3H,m),6.39(1H,s),6.73(1H,d,)=8.8Hz),6.87(1H,d,)=8.8Hz),6.99(1H,dd,)=2.4,8.8Hz),7.15(1H,dt,)=1. 4,8.8Hz),7.21-7.27(2H,m),7.32(1H,dd,)=1.4,8.8Hz),8.46(1H,t,)=5.4Hz). 1.33(3H,dd,)=5.92.8Hz),2.31-2.46(1H,br),2.61-2.84(1H,br),3.18-3.26(2H,m),3.44-3.50(2H,m),4.01- 4.22(2H,m),4.74(1H,t,)=5.3Hz),4.76-4.85(1H,br),4.96-5.06(1H,m),6.51(1H,s),6.70- 6.77(1H,m),6.86(1H,d,)=8.8Hz),7.24(1H,br),2.61-2.84(1H,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02- 4.22(2H,m),4.74(1H,t,)=5.3Hz),4.76-4.85(1H,br),4.87-5.06(1H,m),6.52(1H,s),6.70- 6.78(1H,m),6.79(1H,d,)=8.8Hz),7.24(1H,d,)=2.9Hz),7.67(1H,d,)=8.8Hz),8.47(1H,t,)=5.4Hz). 1.69(3Ht,)=1.96Hz),2.31-2.46(1H,br),2.61-2.84(1H,br),3.03-3.27(3H,m),3.43- 3.50(2H,m),4.34(2Ht,t,)=1.27Hz),4.68-4.86(2H,m),6.50(1H,d,)=8.8Hz),8.47(1H,t,)=5.4Hz). 1.69(3Ht,)=1.96Hz),2.31-2.46(1H,br),2.61-2.83(1H,br),3.03-3.27(3H,m),3.43- 3.50(2H,m),3.52-3.61(1H,m),3.90(2H,t,)=7.3Hz),8.45(1H,t,)=5.4Hz). 0.97(3Ht,t)=1.73Hz),1.61-1.72(2H,m),2.31-2.47(1H,br),2.65-2.81(1H,br),2.99-3.17(3H,m),3.32- 3.40(2H,m),3.52-3.61(1H,m),3.90(2H,t,)=8.8Hz),8.45(1H,t,)=5.9Hz),4.75- 4.87(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,d,)=8.8Hz),8.45(1H,t,)=5.9Hz),4.76- 4.90(2H,m),3.51-3.60(1H,m),3.90(2H,t,)=7.3Hz),4.54(1H,t,)=5.9Hz),4.76- 4.90(2H,m),3.51-3.60(1H,m),3.90(2H,t,)=7.3Hz),4.54(1H,t,)=5.9Hz),4.76- 4.90(2H,m),3.61(1H,d,)=8.8Hz),6.86(1H,d,)=8.8Hz),8.45(1H,t,)=5.4Hz). 0.93(3H,t,)=6.8Hz),1.61-1.72(2H,m),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31- 3.20(2H,m),3	l	7.08(2H,m),7.14(1H,s),7.21-7.26(2H,m),7.32(1H,s),8.65(1H,t,)=5.4Hz).
4.78(2H,m),6.38(1H,s),6.72(1H,d,)=7.8Hz),6.89(1H,d,)=8.8Hz),7.04(1H,dd,)=2.4,8.8Hz),7.15(1H,d,)=1. 5,7.8Hz),7.22-734(3H,m),8.47(1H,t,)=5.3Hz). 1.32(3H,dd,)=6.4/23.5Hz),2.36-2.47(1H,br),2.65-2.76(1H,br),3.18-3.30(3H,m),3.43-3.49(2H,m),4.00- 4.20(2H,m),6.39(1H,s),6.72(1H,d,)=8.8Hz),6.87(1H,d,)=8.8Hz),6.98(1H,dd,)=2.4,8.8Hz),7.15(1H,dt,)=1. 4.8.8Hz),7.21-7.27(2H,m),7.32(1H,dd,)=1.48.8Hz),8.46(1H,t,)=5.8Hz). 1.32(3H,dd,)=6.8/2.39Hz),2.37-2.46(1H,br),2.65-2.83(1H,br),3.19-3.28(3H,m),3.44-3.50(2H,m),4.00- 4.20(2H,m),4.69- 5.05(3H,m),6.39(1H,s),6.73(1H,d,)=8.8Hz),6.87(1H,d,)=8.8Hz),6.99(1H,dd,)=2.4,8.8Hz),7.15(1H,dt,)=1. 4.8.8Hz),7.21-7.27(2H,m),7.32(1H,dd,)=1.4,8.8Hz),8.46(1H,t,)=5.4Hz). 1.33(3H,dd,)=5.9/2.8Hz),2.31-2.46(1H,br),2.61-2.84(1H,br),3.18-3.26(2H,m),3.44-3.50(2H,m)4.01- 4.22(2H,m),4.74(1H,t,)=5.3Hz),4.76-4.85(1H,br),4.96-5.06(1H,m),6.51(1H,s),6.70- 6.77(1H,m),6.86(1H,d,)=8.8Hz),7.25(1H,d,)=2.9Hz),7.66(1H,d,)=8.8Hz),8.46(1H,t,)=5.9Hz). 1.32(3H,dd,)=5.9/2.8Hz),2.32-2.46(1H,br),2.61-2.84(1H,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02- 4.22(2H,m),4.74(1H,t,)=6.3Hz),7.00- 7.08(1H,m),7.19(2H,dd,)=2.9,8.8Hz),7.24(1H,d,)=2.9Hz),7.67(1H,d,)=8.8Hz),8.47(1H,t,)=5.4Hz). 1.69(3H,t,)=19.6Hz),2.31-2.46(1H,br),2.61-2.83(1H,br),3.05-3.27(3H,m),3.43- 3.50(2H,m),4.34(2H,t,)=1.2.7Hz),4.68-4.86(2H,m),6.50(1H,s),6.73-6.78(1H,m),6.89(1H,d,)=8.8Hz),7.01- 7.13(2H,m),7.20(1H,dd,)=2.9,8.8Hz),7.31(1H,d,)=2.9Hz),7.67(1H,d,)=8.8Hz),8.47(1H,t,)=5.4Hz). 0.97(3H,t,)=7.3Hz),1.61-1.72(2H,m),2.31-2.47(1H,br),2.65-2.81(1H,br),2.99-3.17(3H,m),3.32- 3.40(2H,m),3.52-3.61(1H,m),3.90(2H,t,)=7.3Hz),4.54(1H,t,t)=5.9Hz),4.75- 4.87(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.86(1H,d,)=8.8Hz),6.96(1H,d,t)=2.5,8.8Hz),7.12- 7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,t,t)=8.8Hz),8.45(1H,t,)=5.4Hz). 0.98(3H,t,)=6.8Hz),1.61-1.72(2H,m),2.30-2.46(1H,br),2.65-2.80(1H,br),2.99-3.20(3H,m),3.32- 3.39(2H,m),3.51-3.62(1H,m),3.90(2H,t,)=8.8Hz),6.86(1H,d,t,)=8.8Hz),6.94(1H,d,t,)=2.5,8.8Hz),7.12- 7.19(2H,m),7.24(1H,t,t,)=8.8Hz),6.86(1H,d,t,)=8.8Hz),8.94(1H,t,t,)=5.8Hz),6.34(1.67(3H,t,)=19.5Hz),2.30-2.48(1H,br),2.46-2.90(1H,br),3.08-3.34(3H,m),3.39-
4.78(2H,m),6.38(Hs,j),6.72(Hs,d,j=7.8Hz),6.89(Hs,d,j=8.8Hz),7.04(Hs,dc,j=2.4,8.8Hz),7.15(Hs,dc,j=1.5,7.8Hz),7.22-7.34(3H,m),8.47(Hs,t,j=5.3Hz). 1.32(3H,ds,j=6.4,23.5Hz),2.36-2.47(Hs,br),2.65-2.76(Hs,br),3.18-3.30(3H,m),3.43-3.49(2H,m),4.00-4.20(2H,m),4.68-5.06(3H,m),6.39(Hs,j),6.72(Hs,dt,j=1.4,8.8Hz),8.46(Hs,t,j=5.8Hz). 1.32(3H,ds,j=6.8,23.9Hz),2.37-2.46(Hs,br),2.65-2.83(Hb,br),3.19-3.28(3H,m),3.44-3.50(2H,m),4.00-4.20(2H,m),4.69-5.05(3H,m),6.39(Hs,j),6.73(Hs,d,j=8.8Hz),6.87(Hs,d,j=8.8Hz),6.99(Hs,ds,j=2.4,8.8Hz),7.15(Hs,d,j=1.4,8.8Hz),6.99(Hs,ds,j=2.4,8.8Hz),7.15(Hs,d,j=1.4,8.8Hz),6.99(Hs,ds,j=2.4,8.8Hz),7.15(Hs,d,j=1.4,8.8Hz),6.99(Hs,ds,j=2.4,8.8Hz),7.15(Hs,d,j=1.4,8.8Hz),6.99(Hs,ds,j=2.4,8.8Hz),7.15(Hs,d,j=1.4,8.8Hz),7.15	61	4.00(2H,m),432(2H,t,J=12.7Hz),4.70-
132(3H,dd,J=64,235Hz),236-247(IH,br),2.65-2.76(IH,br),3.18-330(3H,m),3.43-3.49(2H,m),4.00-420(2H,m),4.68-5.06(3H,m),6.39(IH,s),6.72(IH,dd,J=8.8Hz),6.87(IH,d,J=8.8Hz),6.98(IH,dd,J=2.4,8.8Hz),7.15(IH,dt,J=1.4,8.8Hz),2.1-7.27(2H,m),7.32(IH,dd,J=1.4,8.8Hz),8.46(IH,t,J=5.8Hz). 132(3H,dd,J=6.82,39Hz),2.37-2.46(IH,br),2.65-2.83(IH,br),3.19-3.28(3H,m),3.44-3.50(2H,m),4.00-420(2H,m),4.69-5.05(3H,m),6.39(IH,s),6.73(IH,dt,J=1.4,8.8Hz),8.46(IH,t,J=5.4Hz). 133(3H,dd,J=5.9,29.8Hz),2.31-2.46(IH,br),2.61-2.84(IH,br),3.18-3.26(2H,m),3.44-3.50(2H,m),4.01-42(2H,m),4.74(IH,t,J=5.3Hz),4.76-4.85(IH,br),4.96-5.06(IH,d,J=8.8Hz),8.46(IH,t,J=5.9Hz). 132(3H,dd,J=5.9,29.8Hz),2.31-2.46(IH,br),2.61-2.84(IH,br),3.03-3.27(2H,m),3.44-3.50(2H,m),4.01-42(2H,m),4.79(IH,t,J=5.3Hz),4.76-4.85(IH,br),2.61-2.84(IH,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02-42(2H,m),4.74(IH,t,J=5.3Hz),4.76-4.85(IH,br),4.87-5.06(IH,d,J=8.8Hz),8.46(IH,t,J=5.9Hz). 132(3H,dd,J=5.9,29.8Hz),2.32-2.46(IH,br),2.61-2.84(IH,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02-42(2H,m),4.74(IH,t,J=5.3Hz),4.76-4.85(IH,br),4.87-5.06(IH,m),6.52(IH,s),6.70-6.78(IH,m),6.87(IH,d,J=8.8Hz),7.24(IH,d,J=2.9Hz),7.67(IH,d,J=8.8Hz),8.47(IH,t,J=5.4Hz). 1.69(3H,t,J=19.6Hz),2.31-2.46(IH,br),2.61-2.83(IH,br),3.05-3.27(3H,m),3.43-3.50(2H,m),4.34(2Ht,J=12.7Hz),4.68-4.86(2H,m),6.50(IH,s),6.73-6.78(IH,m),6.89(IH,d,J=8.8Hz),7.01-7.13(2H,m),7.20(IH,d,J=2.98.8Hz),7.31(IH,d,J=2.9Hz),8.43(IH,t,J=5.4Hz). 0.97(3H,t,J=7.3Hz),1.61-1.72(2H,m),2.31-2.47(IH,br),2.65-2.81(IH,br),2.99-3.17(3H,m),3.32-3.40(2H,m),3.52-3.61(IH,m),3.90(2H,t,J=7.3Hz),4.54(IH,t,J=5.9Hz),4.75-4.75-4.87(IH,m),2.81+2),7.34(IH,d,J=8.8Hz),8.45(IH,t,J=5.4Hz). 0.98(3H,t,J=6.8Hz),7.34(IH,d,J=8.8Hz),6.86(IH,t,J=6.8Hz),6.94(IH,d,J=2.5,8.8Hz),7.12-7.19(2H,m),7.24(IH,t,J=8.8Hz),7.34(IH,d,J=1.4,8.8Hz),8.45(IH,t,J=5.4Hz). 0.98(3H,t,J=6.8Hz),1.61-1.72(H,m),2.31-2.46(IH,tr),2.65-2.80(IH,tr),2.99-3.20(3H,m),3.32-3.39(2H,m),3.51-3.62(IH,m),3.90(2H,t,J=7.3Hz),4.54(IH,t,J=5.9Hz),4.54(IH,t,J=5.4Hz). 0.99(3H,t,J=6.8Hz),1.61-1.72(H,m),2.31-2.46(IH,tr),2.61-2.80(IH	31	4.78(2H,m),638(1H,s),6.72(1H,d,J=7.8Hz),6.89(1H,d,J=8.8Hz),7.04(1H,dd,J=2.4,8.8Hz),7.15(1H,dt,J=1.
52 420(2H,m),468- 5.06(3H,m),6.39(1H,s),6.72(1H,d,j=8.8Hz),6.87(1H,d,j=8.8Hz),6.98(1H,dd,j=2.4,8.8Hz),7.15(1H,dt,j=1.4,8.8Hz),7.21-727(2H,m),7.32(1H,dd,j=1.4,8.8Hz),8.46(1H,t,j=5.8Hz). 1.32(3H,dd,j=6.8,23.9Hz),2.37-2.46(1H,br),2.65-2.83(1H,br),3.19-3.28(3H,m),3.44-3.50(2H,m),4.00-420(2H,m),4.69-5.05(3H,m),6.39(1H,s),6.73(1H,d,j=8.8Hz),6.87(1H,d,j=8.8Hz),6.99(1H,dd,j=2.4,8.8Hz),7.15(1H,dt,j=1.4,8.8Hz),7.21-7.27(2H,m),7.32(1H,dd,j=1.4,8.8Hz),8.46(1H,t,j=5.4Hz). 1.33(3H,dd,j=5.9,29.8Hz),2.31-2.46(1H,br),2.61-2.84(1H,br),3.18-3.26(2H,m),3.44-3.50(2H,m)4.01-422(2H,m),4.74(1H,t,j=5.3Hz),4.76-4.85(1H,br),4.96-5.06(1H,d,j=8.8Hz),8.46(1H,t,j=5.9Hz). 1.32(3H,dd,j=5.9,29.8Hz),2.31-2.46(1H,br),2.61-2.84(1H,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02-422(2H,m),4.74(1H,t,j=5.3Hz),4.76-4.85(1H,br),4.87-5.06(1H,d,j=8.8Hz),8.46(1H,t,j=5.9Hz). 1.32(3H,dd,j=5.9,29.8Hz),2.31-2.46(1H,br),2.61-2.84(1H,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02-422(2H,m),4.74(1H,t,j=5.3Hz),4.76-4.85(1H,br),4.87-5.06(1H,m),6.52(1H,s),6.70-6.78(1H,m),6.87(1H,d,j=8.8Hz),7.00-7.08(1H,m),7.19(2H,dd,j=2.9,8.8Hz),7.24(1H,d,j=2.9Hz),7.67(1H,d,j=8.8Hz),8.47(1H,t,j=5.4Hz). 1.69(3H,t,j=19.6Hz),2.31-2.46(1H,br),2.61-2.83(1H,br),3.05-3.27(3H,m),3.43-3.50(2H,m),4.34(2H,t,j=12.7Hz),4.68-4.86(2H,m),6.50(1H,s),6.73-6.78(1H,m),6.89(1H,d,j=8.8Hz),7.01-7.13(2H,m),7.20(1H,d,j=2.9,8.8Hz),7.31(1H,d,j=2.9Hz),8.43(1H,t,j=5.9Hz),4.76-4.87(2H,m),6.30(1H,m),3.90(2H,t,j=7.3Hz),4.54(1H,t,t,j=5.9Hz),4.76-4.87(2H,m),6.40(1H,s),6.71(1H,d,j=8.8Hz),6.85(1H,d,j=8.8Hz),6.95(1H,d,j=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,j=8.8Hz),7.34(1H,d,j=1.4,8.8Hz),8.45(1H,t,j=5.9Hz),4.76-4.90(2H,m),3.51-3.62(1H,m),3.90(2H,t,j=7.3Hz),4.54(1H,t,j=5.9Hz),4.76-4.90(2H,m),3.51-3.62(1H,m),3.90(2H,t,j=7.3Hz),4.54(1H,t,j=5.9Hz),4.76-4.90(2H,m),3.51-3.62(1H,m),3.90(2H,t,j=7.3Hz),4.54(1H,t,j=5.9Hz),4.76-4.90(2H,m),3.51-3.62(1H,m),3.90(2H,t,j=6.8Hz),6.86(1H,d,j=8.8Hz),8.45(1H,t,j=5.9Hz),4.76-4.90(2H,m),3.51-3.86(1H,d,j=8.8Hz),8.66(1H,d,j=8.8Hz),8.69(1H,d,j=6.2Hz),6.71(1H,d,j=6.2Hz),6.71(1H,d,j=6.2Hz),6.71(1H,d,j=		5,7.8Hz),7.22-7.34(3H,m),8.47(1H,t,J=5.3Hz).
5.06(3H,m),6.39(1H,s),6.72(1H,d,J=8.8Hz),6.87(1H,d,J=8.8Hz),6.98(1H,dd,J=2.4,8.8Hz),7.15(1H,dt,J=1.4,8.8Hz),721-727(2H,m),7.32(1H,dd,J=1.4,8.8Hz),8.46(1H,t,J=5.8Hz). 1.32(3H,dt,J=6.8,23.9Hz),2.37-2.46(1H,br),2.65-2.83(1H,br),3.19-3.28(3H,m),3.44-3.50(2H,m),4.00-420(2H,m),4.69-5.05(3H,m),6.39(1H,s),6.73(1H,d,J=8.8Hz),6.87(1H,d,J=8.8Hz),6.99(1H,dd,J=2.4,8.8Hz),7.15(1H,dt,J=1.4,8.8Hz),7.21-7.27(2H,m),7.732(1H,dt,J=1.4,8.8Hz),8.46(1H,t,J=5.4Hz). 1.33(3H,dd,J=5.9,29.8Hz),2.31-2.46(1H,br),2.61-2.84(1H,br),3.18-3.26(2H,m),3.44-3.50(2H,m)4.01-422(2H,m),4.74(1H,t,J=5.3Hz),4.76-4.85(1H,br),4.96-5.06(1H,m),6.51(1H,s),6.70-6.77(1H,m),6.86(1H,d,J=8.8Hz),7.01-7.08(1H,m),7.19(2H,dd,J=2.9,8.8Hz),7.25(1H,d,J),4.87-5.06(1H,d,J=8.8Hz),8.46(1H,t,J=5.9Hz). 1.32(3H,dd,J=5.9,29.8Hz),2.32-2.46(1H,br),2.61-2.84(1H,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02-422(2H,m),4.74(1H,t,J=5.3Hz),4.76-4.85(1H,br),4.87-5.06(1H,m),6.52(1H,s),6.70-6.78(1H,m),6.87(1H,d,J=8.8Hz),7.00-7.08(1H,m),7.19(2H,dd,J=2.9,8.8Hz),7.24(1H,d,J=2.9Hz),7.67(1H,d,J=8.8Hz),8.47(1H,t,J=5.4Hz). 1.69(3H,t,J=7.3Hz),1.61-1.72(2H,m),2.31-2.47(1H,br),2.65-2.81(1H,br),2.99-3.17(3H,m),3.32-3.40(2H,m),3.52-3.61(1H,m),3.90(2H,t,J=7.3Hz),4.54(1H,t,J=5.9Hz),4.75-4.87(2H,m),6.89(1H,d,J=8.8Hz),6.85(1H,d,J=8.8Hz),6.95(1H,d,J=2.5,8.8Hz),7.12-7.19(2H,m),6.40(1H,s),6.71(1H,d,J=8.8Hz),6.85(1H,d,J=8.8Hz),6.95(1H,d,J=2.5,8.8Hz),7.12-7.19(2H,m),6.40(1H,s),6.71(1H,d,J=8.8Hz),6.86(1H,d,J=8.8Hz),6.94(1H,d,J=2.5,8.8Hz),7.12-7.19(2H,m),3.51-3.62(1H,m),3.90(2H,t,J=7.3Hz),4.54(1H,t,J=5.9Hz),4.76-4.90(2H,m),3.51-3.62(1H,m),3.90(2H,t,J=7.3Hz),4.54(1H,t,J=5.9Hz),4.76-4.90(2H,m),6.40(1H,s),6.71(1H,d,J=8.8Hz),6.86(1H,d,J=8.8Hz),6.94(1H,dd,J=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,J=8.8Hz),6.86(1H,d,J=8.8Hz),6.94(1H,dd,J=2.5,8.8Hz),7.12-7.19(2H,m),3.51-3.62(1H,m),3.90(2H,t,J=8.8Hz),6.86(1H,d,J=8.8Hz),6.94(1H,dd,J=2.5,8.8Hz),7.12-7.19(2H,m),3.21,61-1.72(2H,m),2.31-2.446(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31-3.19(2H,m),3.51-3.62(1H,m),3.90(2H,t,J=6.8Hz),6.86(1H,t,J=6.8Hz),6.86(1H,t,J=6.8Hz),6.86(1H,t,		1.32(3H,dd,)=6.4,23.5Hz),2.36-2.47(1H,br),2.65-2.76(1H,br),3.18-3.30(3H,m),3.43-3.49(2H,m),4.00-
5.06(3H,m)6.39(1H,s)6.72(1H,d,L=8.8Hz),8.87(1H,d,L=8.8Hz),6.98(1H,dd,L=2.4,8.8Hz),7.15(1H,dt,L=1.4),8.8Hz),7.21-727(2H,m),7.32(1H,dd,L=1.4,8.8Hz),8.46(1H,t,L=5.8Hz). 1.32(3H,dd,L=6.8,23.9Hz),2.37-2.46(1H,br),2.65-2.83(1H,br),3.19-3.28(3H,m),3.44-3.50(2H,m),4.00-420(2H,m),4.69-5.05(3H,m)6.39(1H,s),6.73(1H,dt,L=1.4,8.8Hz),8.46(1H,t,L=5.4Hz). 1.33(3H,dd,L=5.9,29.8Hz),2.31-2.46(1H,br),2.61-2.84(1H,br),3.18-3.26(2H,m),3.44-3.50(2H,m)4.01-42.2(2H,m),4.74(1H,t,L=5.3Hz),4.76-4.85(1H,br),4.96-5.06(1H,m),6.51(1H,s),6.70-6.77(1H,m),6.86(1H,d,L=8.8Hz),7.01-7.08(1H,m),7.19(2H,dd,L=2.9,8.8Hz),7.25(1H,d,L=2.9Hz),7.66(1H,d,L=8.8Hz),8.46(1H,t,L=5.9Hz). 1.32(3H,dd,L=5.9,29.8Hz),2.32-2.46(1H,br),2.61-2.84(1H,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02-4.22(2H,m),4.74(1H,t,L=5.3Hz),4.76-4.85(1H,br),4.87-5.06(1H,m),6.52(1H,s),6.70-6.78(1H,m),6.87(1H,d,L=8.8Hz),7.00-7.08(1H,m),7.19(2H,dd,L=2.9,8.8Hz),7.24(1H,d,L=2.9Hz),7.67(1H,d,L=8.8Hz),8.47(1H,t,L=5.4Hz). 1.69(3H,t,L=1.9.6Hz),2.31-2.46(1H,br),2.61-2.83(1H,br),3.05-3.27(3H,m),3.43-3.50(2H,m),3.42(2H,t,L=1.2.7Hz),4.68-4.86(2H,m),6.50(1H,s),6.73-6.78(1H,m),6.89(1H,d,L=8.8Hz),7.01-7.13(2H,m),7.20(1H,dd,L=2.9,8.8Hz),7.31(1H,d,L=2.9Hz),8.43(1H,t,L=5.4Hz). 1.69(3H,t,L=7.3Hz),1.61-1.72(2H,m),2.31-2.47(1H,br),2.65-2.81(1H,br),2.99-3.17(3H,m),3.32-3.40(2H,m),3.52-3.61(1H,m),3.90(2H,t,L=7.3Hz),4.54(1H,t,L=5.9Hz),4.75(1H,d,L=2.5,8.8Hz),7.12-7.19(2H,m),5.21(1H,d,L=8.8Hz),6.85(1H,d,L=8.8Hz),6.95(1H,d,L=2.5,8.8Hz),7.12-7.19(2H,m),5.31-3.62(1H,m),3.90(2H,t,L=7.3Hz),4.54(1H,t,L=5.9Hz),4.76-4.90(2H,m),6.40(1H,s),6.71(1H,d,L=8.8Hz),6.86(1H,d,L=8.8Hz),6.94(1H,dd,L=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,L=8.8Hz),6.86(1H,d,L=8.8Hz),6.94(1H,dd,L=2.5,8.8Hz),7.12-7.19(2H,m),3.161-1.72(2H,m),2.31-2.46(1H,br),2.61-2.80(1H,br),3.00-3.21(3H,m),3.31-3.20(3H,m),3.53-3.62(3H,m),3.31-3.20(3H,m),3.53-3.62(3H,m),3.31-3.20(3H,m),3.53-3.62(3H,m),3.31-3.20(3H,m),3.53-3.62(3H,m),3.31-3.20(3H,m),3.51-3.62(3H,m),3.31-3.20(3H,m),3.31-3.20(3H,m),3.31-3.30(3H,m),3.31-3.30(3H,m),3.31-3.30(3H,m),3.31-3.30(3H,m),3.31-3.30(3H,m	52	4.20(2H,m),4.68-
132(3H,dd,=68,239Hz),237-246(1H,br),265-2.83(1H,br),3.19-328(3H,m),3.44-3.50(2H,m),4.00-420(2H,m),4.69-5.05(3H,m),6.39(1H,d,),=8.8Hz),6.87(1H,d,)=8.8Hz),6.99(1H,dd,)=2.4,8.8Hz),7.15(1H,d,)=1.4,8.8Hz),7.21-727(2H,m),7.32(1H,dd,)=1.4,8.8Hz),8.46(1H,t,)=5.4Hz). 133(3H,dd,)=5.9,29.8Hz),2.31-2.46(1H,br),2.61-2.84(1H,br),3.18-3.26(2H,m),3.44-3.50(2H,m)4.01-422(2H,m),4.74(1H,t,)=5.3Hz),4.76-4.85(1H,br),4.96-5.06(1H,m),6.51(1H,s),6.70-6.77(1H,m),6.86(1H,d,)=8.8Hz),7.21-7.08(1H,m),7.19(2H,dd,)=2.9,8.8Hz),7.25(1H,d,)=2.9Hz),7.66(1H,d,)=8.8Hz),8.46(1H,t,)=5.9Hz). 132(3H,dd,)=5.9,29.8Hz),2.32-2.46(1H,br),2.61-2.84(1H,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02-422(2H,m),4.74(1H,t,)=5.3Hz),4.76-4.85(1H,br),2.61-2.84(1H,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02-422(2H,m),4.74(1H,t,)=5.3Hz),4.76-4.85(1H,br),4.87-5.06(1H,m),6.52(1H,s),6.70-6.78(1H,m),7.19(2H,dd,)=2.9,8.8Hz),7.24(1H,d,)=2.9Hz),7.67(1H,d,)=8.8Hz),8.47(1H,t,)=5.4Hz). 1.69(3H,t,)=19.6Hz),2.31-2.46(1H,br),2.61-2.83(1H,br),3.05-3.27(3H,m),3.43-3.50(2H,m),3.42-2.12.46(1H,br),2.61-2.83(1H,br),3.05-3.27(3H,m),6.89(1H,d,)=8.8Hz),7.01-7.13(2H,m),7.20(1H,dd,)=2.9,8.8Hz),7.31(1H,d,)=2.9Hz),8.43(1H,t,)=5.4Hz). 84 84 85 87 88 89 89 89 89 89 89 89 89	32	5.06(3H,m),6.39(1H,s),6.72(1H,d,J=8.8Hz),6.87(1H,d,J=8.8Hz),6.98(1H,dd,J=2.4,8.8Hz),7.15(1H,dt,J=1.
420(2H,m),4.69-5.05(3H,m),6.39(1H,s),6.73(1H,d,j=8.8Hz),6.87(1H,d,j=8.8Hz),6.99(1H,dd,j=2.4,8.8Hz),7.15(1H,d,j=1.4,8.8Hz),7.21-7.27(2H,m),7.32(1H,dd,j=1.4,8.8Hz),8.46(1H,t,j=5.4Hz). 133(3H,dd,j=5.9,29.8Hz),2.31-2.46(1H,br),2.61-2.84(1H,br),3.18-3.26(2H,m),3.44-3.50(2H,m)4.01-422(2H,m),4.74(1H,t,j=5.3Hz),4.76-4.85(1H,br),4.96-5.06(1H,d,j=8.8Hz),8.46(1H,t,j=5.9Hz). 7.08(1H,m),7.19(2H,dd,j=2.98.8Hz),7.25(1H,d,j=2.9Hz),7.66(1H,d,j=8.8Hz),8.46(1H,t,j=5.9Hz). 1.32(3H,dd,j=5.9,29.8Hz),2.32-2.46(1H,br),2.61-2.84(1H,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02-422(2H,m),4.74(1H,t,j=5.3Hz),4.76-4.85(1H,br),4.87-5.06(1H,m),6.52(1H,s),6.70-6.78(1H,m),6.87(1H,d,j=8.8Hz),7.00-7.08(1H,m),7.19(2H,dd,j=2.98.8Hz),7.24(1H,d,j=2.9Hz),7.67(1H,d,j=8.8Hz),8.47(1H,t,j=5.4Hz). 1.69(3H,t,j=19.6Hz),2.31-2.46(1H,br),2.61-2.83(1H,br),3.05-3.27(3H,m),3.43-3.50(2H,m),4.34(2H,t,j=12.7Hz),4.68-4.86(2H,m),6.50(1H,s),6.73-6.78(1H,m),6.88(1H,d,j=8.8Hz),7.01-7.13(2H,m),7.20(1H,dd,j=2.98.8Hz),7.31(1H,d,j=2.9Hz),8.43(1H,t,j=5.4Hz). 0.97(3H,t,j=7.3Hz),1.61-1.72(2H,m),2.31-2.47(1H,br),2.65-2.81(1H,br),2.99-3.17(3H,m),3.32-3.40(2H,m),3.52-3.61(1H,m),3.90(2H,t,j=7.3Hz),4.54(1H,t,j=5.9Hz),4.75-4.87(2H,m),6.40(1H,s),6.71(1H,d,j=8.8Hz),6.85(1H,d,j=8.8Hz),6.95(1H,dd,j=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,j=8.8Hz),7.34(1H,dd,j=1.4,8.8Hz),8.45(1H,t,j=5.9Hz),4.76-4.90(2H,m),6.40(1H,s),6.71(1H,d,j=8.8Hz),6.86(1H,d,j=8.8Hz),6.94(1H,dd,j=2.5,8.8Hz),7.12-7.19(2H,m),3.51-3.62(1H,m),3.90(2H,t,j=7.3Hz),4.54(1H,t,j=5.9Hz),4.76-4.90(2H,m),6.40(1H,s),6.71(1H,d,j=8.8Hz),6.86(1H,d,j=8.8Hz),6.94(1H,dd,j=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,j=8.8Hz),7.34(1H,dd,j=1.4,8.8Hz),8.45(1H,t,j=5.4Hz). 0.93(3H,t,j=6.8Hz),1.61-1.71(2H,m),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31-3.20(2H,m),3.20(3H,t,j=6.8Hz),1.64(1H,br),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31-3.20(2H,m),3.20(3H,t,j=6.8Hz),1.64(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31-3.20(2H,m),3.20(3H,t,j=6.8Hz),4.54(1H,t,j=6.8Hz),4.54(1H,t,j=6.8Hz),4.54(1H,t,j=6.8Hz),4.54(1H,t,j=6.8Hz),4.54(1H,t,j=6		4,8.8Hz),7.21-7.27(2H,m),7.32(1H,dd,J=1.4,8.8Hz),8.46(1H,t,J=5.8Hz).
5.05(3H,m),6.39(1H,s),6.73(1H,d,J=8.8Hz),6.87(1H,d,J=8.8Hz),6.99(1H,dd,J=2.4,8.8Hz),7.15(1H,d,J=1.4,8.8Hz),7.21-7.27(2H,m),7.32(1H,dd,J=1.4,8.8Hz),8.46(1H,t,J=5.4Hz). 1.33(3H,dd,J=5.9,29.8Hz),2.31-2.46(1H,br),2.61-2.84(1H,br),3.18-3.26(2H,m),3.44-3.50(2H,m)4.01-4.22(2H,m),4.74(1H,t,J=5.3Hz),4.76-4.85(1H,br),4.96-5.06(1H,m),6.51(1H,s),6.70-6.77(1H,m),6.86(1H,d,J=8.8Hz),7.01-7.08(1H,m),7.19(2H,dd,J=2.9,8.8Hz),7.25(1H,d,J=2.9Hz),7.66(1H,d,J=8.8Hz),8.46(1Ht,J=5.9Hz). 1.32(3H,dd,J=5.9,29.8Hz),2.32-2.46(1H,br),2.61-2.84(1H,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02-4.22(2H,m),4.74(1H,t,J=5.3Hz),4.76-4.85(1H,br),4.87-5.06(1H,m),6.52(1H,s),6.70-6.78(1H,m),6.87(1H,d,J=8.8Hz),7.00-7.08(1H,m),7.19(2H,dd,J=2.9,8.8Hz),7.24(1H,d,J=2.9Hz),7.67(1H,d,J=8.8Hz),8.47(1Ht,J=5.4Hz). 1.69(3H,t,J=19.6Hz),2.31-2.46(1H,br),2.61-2.83(1H,br),3.05-3.27(3H,m),3.43-3.50(2H,m),4.34(2H,t,J=12.7Hz),4.68-4.86(2H,m),6.50(1H,s),6.73-6.78(1H,m),6.89(1H,d,J=8.8Hz),7.01-7.13(2H,m),7.20(1H,dd,J=2.9,8.8Hz),7.31(1H,d,J=2.9Hz),8.43(1H,t,J=5.4Hz). 0.97(3H,t,J=7.3Hz),1.61-1.72(2H,m),2.31-2.47(1H,br),2.65-2.81(1H,br),2.99-3.17(3H,m),3.32-3.40(2H,m),3.52-3.61(1H,m),3.90(2H,t,J=7.3Hz),4.54(1H,t,J=5.9Hz),4.75-4.41z). 0.98(3H,t,J=7.3Hz),1.61-1.7(2H,m),2.30-2.46(1H,br),2.65-2.80(1H,br),2.99-3.20(3H,m),3.32-3.39(2H,m),3.51-3.62(1H,m),3.90(2H,t,J=7.3Hz),4.54(1H,t,J=5.9Hz),4.76-4.90(2H,m),6.40(1H,s),6.71(1H,d,J=8.8Hz),6.86(1H,d,J=8.8Hz),6.94(1H,dd,J=2.5,8.8Hz),7.12-7.19(2H,m),6.40(1H,s),6.71(1H,d,J=8.8Hz),6.86(1H,d,J=8.8Hz),6.94(1H,dd,J=2.5,8.8Hz),7.12-7.19(2H,m),6.40(1H,s),6.71(1H,d,J=8.8Hz),6.86(1H,d,J=8.8Hz),6.94(1H,dd,J=2.5,8.8Hz),7.12-7.19(2H,m),6.40(1H,s),6.71(1H,d,J=8.8Hz),6.86(1H,d,J=8.8Hz),6.94(1H,dd,J=2.5,8.8Hz),7.12-7.19(2H,m),6.40(1H,s),6.71(1H,d,J=8.8Hz),6.86(1H,d,J=8.8Hz),6.94(1H,dd,J=2.5,8.8Hz),7.12-7.19(2H,m),6.40(1H,s),6.71(1H,d,J=8.8Hz),6.86(1H,t),1.88(1H,t),1.80(2H,t),6.71(2H,m),3.31-3.30(2H,m),3.32-3.30(2H,m),3.32-3.30(2H,m),3.32-3.30(2H,m),3.32-3.30(2H,m),3.32(3H,m),3.32(3H,m),3.32(3H,m),3.32(3H,m),3.32(3H,m),3.32(3H,m),3.32(3H,m),3.32(3H,m)		1.32(3H,dd,J=6.8,23.9Hz),2.37-2.46(1H,br),2.65-2.83(1H,br),3.19-3.28(3H,m),3.44-3.50(2H,m),4.00-
5.05(3H,m),6.39(1H,s),6.73(1H,d)=8.8Hz),6.87(1H,d)=8.8Hz),6.99(1H,dd)=2.4,8.8Hz),7.15(1H,dt)=1. 4,8.8Hz),7.21-7.27(2H,m),7.32(1H,dd)=1.4,8.8Hz),8.46(1H,t)=5.4Hz). 1.33(3H,dd)=5.9,29.8Hz),2.31-2.46(1H,br),2.61-2.84(1H,br),3.18-3.26(2H,m),3.44-3.50(2H,m)4.01-422(2H,m),4.74(1H,t)=5.3Hz),4.76-4.85(1H,br),4.96-5.06(1H,m),6.51(1H,s),6.70-6.77(1H,m),6.86(1H,d)=2.9,8.8Hz),7.25(1H,d)=2.9Hz),7.66(1H,d)=8.8Hz),8.46(1H,t)=5.9Hz). 1.32(3H,dd)=5.9,29.8Hz),2.32-2.46(1H,br),2.61-2.84(1H,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02-422(2H,m),4.74(1H,t)=5.3Hz),4.76-4.85(1H,br),4.87-5.06(1H,m),6.52(1H,s),6.70-6.78(1H,m),6.87(1H,d)=2.9,8.8Hz),7.24(1H,d)=2.9Hz),7.67(1H,d)=8.8Hz),8.47(1H,t)=5.4Hz). 1.69(3H,t)=1.96Hz),2.31-2.46(1H,br),2.61-2.83(1H,br),3.05-3.27(3H,m),3.43-3.50(2H,m),4.34(2H,t)=12.7Hz),4.68-4.86(2H,m),6.50(1H,s),6.73-6.78(1H,m),6.89(1H,d)=8.8Hz),7.01-7.13(2H,m),7.20(1H,dd)=2.9,8.8Hz),7.31(1H,d,l=2.9Hz),8.43(1H,t)=5.4Hz). 0.97(3H,t)=7.3Hz),1.61-1.72(2H,m),2.31-2.47(1H,br),2.65-2.81(1H,br),2.99-3.17(3H,m),3.32-3.40(2H,m),3.52-3.61(1H,m),3.90(2H,t)=7.3Hz),4.54(1H,t)=5.9Hz),4.75-4Hz). 0.98(3H,t)=7.3Hz),1.61-1.71(2H,m),2.30-2.46(1H,br),2.65-2.80(1H,br),2.99-3.20(3H,m),3.32-3.39(2H,m),3.51-3.62(1H,m),3.90(2H,t)=7.3Hz),4.54(1H,t)=5.9Hz),4.75-4Hz). 0.93(3H,t)=6.8Hz),1.61-1.72(2H,m),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31-3.30(2H,m),3.52-3.61(1H,m),3.20(2H,t)=6.8Hz),6.86(1H,d)=8.8Hz),6.94(1H,dd)=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t)=8.8Hz),6.86(1H,d)=8.8Hz),6.94(1H,dd)=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t)=8.8Hz),6.86(1H,d)=8.8Hz),6.94(1H,dd)=2.5,8.8Hz),7.12-7.19(2H,m),6.40(1H,s),6.71(1H,d)=8.8Hz),6.86(1H,d)=8.8Hz),6.94(1H,dd)=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t)=8.8Hz),7.34(1H,dd)=1.4,8.8Hz),8.45(1H,t)=5.4Hz).	53	
133(3H,dd,=59,29.8Hz),231-2.46(1H,br),2.61-2.84(1H,br),3.18-3.26(2H,m),3.44-3.50(2H,m)4.01-422(2H,m),4.74(1H,t)=5.3Hz),4.76-4.85(1H,br),4.96-5.06(1H,m),6.51(1H,s),6.70-6.77(1H,m),6.86(1H,d,)=8.8Hz),7.01-7.08(1H,m),7.19(2H,dd,)=2.9,8.8Hz),7.25(1H,d,)=2.9Hz),7.66(1H,d,)=8.8Hz),8.46(1H,t,)=5.9Hz). 132(3H,dd,)=5.9,29.8Hz),2.32-2.46(1H,br),2.61-2.84(1H,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02-422(2H,m),4.74(1H,t)=5.3Hz),4.76-4.85(1H,br),4.87-5.06(1H,m),6.52(1H,s),6.70-6.78(1H,m),6.87(1H,d,)=8.8Hz),7.00-7.08(1H,m),7.19(2H,dd,)=2.9,8.8Hz),7.24(1H,d,)=2.9Hz),7.67(1H,d,)=8.8Hz),8.47(1H,t,)=5.4Hz). 1.69(3H,t,)=19.6Hz),2.31-2.46(1H,br),2.61-2.83(1H,br),3.05-3.27(3H,m),3.43-3.50(2H,m),4.34(2H,t,)=12.7Hz),4.68-4.86(2H,m),6.50(1H,s),6.73-6.78(1H,m),6.89(1H,d,)=8.8Hz),7.01-7.13(2H,m),7.20(1H,dd,)=2.9,8.8Hz),7.31(1H,d,)=2.9Hz),8.43(1H,t,)=5.4Hz). 0.97(3H,t,)=7.3Hz),1.61-1.72(2H,m),2.31-2.47(1H,br),2.65-2.81(1H,br),2.99-3.17(3H,m),3.32-3.40(2H,m),3.52-3.61(1H,m),3.90(2H,t,)=7.3Hz),4.54(1H,t,)=5.9Hz),4.75-4.87(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.85(1H,d,)=8.8Hz),6.95(1H,dd,)=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.98(3H,t,)=7.3Hz),1.61-1.71(2H,m),2.30-2.46(1H,br),2.65-2.80(1H,br),2.99-3.20(3H,m),3.32-3.39(2H,m),3.51-3.62(1H,m),3.90(2H,t,)=7.3Hz),4.54(1H,t,)=5.9Hz),4.75-4.490(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.86(1H,d,)=8.8Hz),6.94(1H,dd,)=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,d,)=8.8Hz),6.86(1H,d,)=8.8Hz),6.94(1H,dd,)=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.93(3H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.93(3H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.93(3H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.93(3H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz).		
422(2H,m),4.74(1H,t,)=5.3Hz),4.76-4.85(1H,br),4.96-5.06(1H,m),6.51(1H,s),6.70-6.77(1H,m),6.86(1H,d,)=8.8Hz),7.01-7.08(1H,m),7.19(2H,dd,)=2.98.8Hz),7.25(1H,d,)=2.9Hz),7.66(1H,d,)=8.8Hz),8.46(1H,t,)=5.9Hz). 132(3H,dd,)=5.9,29.8Hz),2.32-2.46(1H,br),2.61-2.84(1H,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02-4.22(2H,m),4.74(1H,t,)=5.3Hz),4.76-4.85(1H,br),4.87-5.06(1H,m),6.52(1H,s),6.70-6.78(1H,m),6.87(1H,d,)=2.98.8Hz),7.00-7.08(1H,m),7.19(2H,dd,)=2.98.8Hz),7.24(1H,d,)=2.9Hz),7.67(1H,d,)=8.8Hz),8.47(1H,t,)=5.4Hz). 1.69(3H,t,)=19.6Hz),2.31-2.46(1H,br),2.61-2.83(1H,br),3.05-3.27(3H,m),3.43-3.50(2H,m),4.34(2H,t,)=12.7Hz),4.68-4.86(2H,m),6.50(1H,s),6.73-6.78(1H,m),6.89(1H,d,)=8.8Hz),7.01-7.13(2H,m),7.20(1H,dd,)=2.98.8Hz),7.31(1H,d,)=2.9Hz),8.43(1H,t,)=5.4Hz). 0.97(3H,t,)=7.3Hz),1.61-1.72(2H,m),2.31-2.47(1H,br),2.65-2.81(1H,br),2.99-3.17(3H,m),3.32-3.40(2H,m),3.52-3.61(1H,m),3.90(2H,t,)=7.3Hz),4.54(1H,t,t,)=5.9Hz),4.75-4.87(2H,m),6.40(1H,s),6.71(1H,d,t,)=8.8Hz),6.86(1H,d,t,)=8.8Hz),6.95(1H,dd,t,)=2.58.8Hz),7.12-7.19(2H,m),7.24(1H,t,t,)=7.3Hz),4.54(1H,t,t,)=5.9Hz),4.76-4.90(2H,m),6.40(1H,s),6.71(1H,d,t,)=8.8Hz),6.86(1H,d,t,)=8.8Hz),6.94(1H,dd,t,)=2.58.8Hz),7.12-7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,t,)=8.8Hz),6.94(1H,dd,t,)=2.58.8Hz),7.12-7.19(2H,m),7.24(1H,t,)=8.8Hz),6.86(1H,d,t,)=8.8Hz),6.94(1H,dd,t,)=2.58.8Hz),7.12-7.19(2H,m),7.24(1H,t,)=8.8Hz),6.86(1H,d,t,)=8.8Hz),6.94(1H,dd,t,)=2.58.8Hz),7.12-7.19(2H,m),7.24(1H,t,)=8.8Hz),6.86(1H,d,t,)=8.8Hz),6.94(1H,dd,t,)=2.58.8Hz),7.12-7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,t,)=1.48.8Hz),8.45(1H,t,)=5.4Hz). 0.93(3H,t,)=6.8Hz),1.61-1.72(2H,m),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31-3.20(
6.77(1H,m),6.86(1H,d,)=8.8Hz),7.01- 7.08(1H,m),7.19(2H,dd,)=2.98.8Hz),7.25(1H,d,)=2.9Hz),7.66(1H,d,)=8.8Hz),8.46(1H,t,)=5.9Hz). 1.32(3H,dd,)=5.9,29.8Hz),2.32-2.46(1H,br),2.61-2.84(1H,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02- 4.22(2H,m),4.74(1H,t,)=5.3Hz),4.76-4.85(1H,br),4.87-5.06(1H,m),6.52(1H,s),6.70- 6.78(1H,m),6.87(1H,d,)=8.8Hz),7.00- 7.08(1H,m),7.19(2H,dd,)=2.9,8.8Hz),7.24(1H,d,)=2.9Hz),7.67(1H,d,)=8.8Hz),8.47(1Ht,t)=5.4Hz). 1.69(3H,t,)=19.6Hz),2.31-2.46(1H,br),2.61-2.83(1H,br),3.05-3.27(3H,m),3.43- 3.50(2H,m),4.34(2H,t,)=12.7Hz),4.68-4.86(2H,m),6.50(1H,s),6.73-6.78(1H,m),6.89(1H,d,)=8.8Hz),7.01- 7.13(2H,m),7.20(1H,dd,)=2.98.8Hz),7.31(1H,d,)=2.9Hz),8.43(1H,t,)=5.4Hz). 0.97(3H,t,)=7.3Hz),1.61-1.72(2H,m),2.31-2.47(1H,br),2.65-2.81(1H,br),2.99-3.17(3H,m),3.32- 3.40(2H,m),3.52-3.61(1H,m),3.90(2H,t,)=7.3Hz),4.54(1H,t,)=5.9Hz),4.75- 4.87(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.85(1H,d,)=8.8Hz),6.95(1H,dd,)=2.5,8.8Hz),7.12- 7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.9Hz),4.76- 4.90(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.86(1H,dr)=8.8Hz),6.94(1H,dd,)=2.5,8.8Hz),7.12- 7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.9Hz),4.76- 4.90(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.86(1H,dr)=8.8Hz),6.94(1H,dd,)=2.5,8.8Hz),7.12- 7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.93(3H,t,)=6.8Hz),1.61-1.72(2H,m),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31- 3.00(2H,tr),3.51-3.62(1H,tr),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31- 3.00(2H,tr),3.51-3.62(1H,tr),3.00(2H,tr),3.00(2H,tr),4.56(1H,tr),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31- 3.00(2H,tr),3.51-3.62(1H,tr),3.00(2H,tr),3.0		
6.77(1H,m),6.86(1H,d,)=8.8Hz),7.01- 7.08(1H,m),7.19(2H,dd,)=2.9,8.8Hz),7.25(1H,d,)=2.9Hz),7.66(1H,d,)=8.8Hz),8.46(1H,t,)=5.9Hz). 1.32(3H,dd,)=5.9,29.8Hz),2.32-2.46(1H,br),2.61-2.84(1H,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02- 4.22(2H,m),4.74(1H,t,)=5.3Hz),4.76-4.85(1H,br),4.87-5.06(1H,m),6.52(1H,s),6.70- 6.78(1H,m),6.87(1H,d,)=8.8Hz),7.00- 7.08(1H,m),7.19(2H,dd,)=2.9,8.8Hz),7.24(1H,d,)=2.9Hz),7.67(1H,d,)=8.8Hz),8.47(1H,t,)=5.4Hz). 1.69(3H,t,)=19.6Hz),2.31-2.46(1H,br),2.61-2.83(1H,br),3.05-3.27(3H,m),3.43- 3.50(2H,m),4.34(2H,t,)=12.7Hz),4.68-4.86(2H,m),6.50(1H,s),6.73-6.78(1H,m),6.89(1H,d,)=8.8Hz),7.01- 7.13(2H,m),7.20(1H,dd,)=2.9,8.8Hz),7.31(1H,d,)=2.9Hz),8.43(1H,t,)=5.4Hz). 0.97(3H,t,)=7.3Hz),1.61-1.72(2H,m),2.31-2.47(1H,br),2.65-2.81(1H,br),2.99-3.17(3H,m),3.32- 3.40(2H,m),3.52-3.61(1H,m),3.90(2H,t,)=7.3Hz),4.54(1H,t,)=5.9Hz),4.75- 4.87(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.85(1H,d,)=8.8Hz),6.95(1H,dd,)=2.5,8.8Hz),7.12- 7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.9Hz),4.76- 4.90(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.86(1H,d,)=8.8Hz),6.94(1H,dd,)=2.5,8.8Hz),7.12- 7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.9Hz),4.76- 4.90(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.86(1H,d,)=8.8Hz),6.94(1H,dd,)=2.5,8.8Hz),7.12- 7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.93(3H,t,)=6.8Hz),1.61-1.72(2H,m),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31- 3.90(2H,m),3.51-3.62(1H,m),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31- 3.90(2H,m),3.51-3.62(1H,m),3.90(2H,t,)=6.8Hz),4.56(1H,t,t,)=6.9Hz),4.56(1H,t,t,)=6.9Hz),4.56(1H,t,t,)=6.9Hz),4.56(1H,t,t,)=6.9Hz),4.56(1H,t,t,)=6.9Hz),4.56(1H,t,t,)=6.9Hz),4.56(1H,t,t,)=6.9Hz),4.56(1H,t,t,)=6.9Hz),4.56(1H,t,t,)=6.9Hz),4.56(1H,t,t,)=6.9Hz),4.56(1H,t,t,)=6.9Hz),4.56(1H,t,t,)=6.9Hz),4.56(1H,t,t,t,)=6.9Hz),4.56(1H,t,t,t,)=6.9Hz),4.56(1H,t,t,t,)=6.9Hz),4.56(1H,t,t,t,)=6.9Hz),4.56(1H,t,t,t,t,)=6.9Hz),4.56(1H,t,t,t,t,t,)=6.9Hz),4.56(1H,t,t,t,t,t,t,)=6.9Hz),4.56(1H,t,t,t,t,t,t,t,)=6.9Hz),4.56(1H,t,t,t,t,t,	54	
132(3H,dd,)=5.9,29.8Hz),232-2.46(1H,br),2.61-2.84(1H,br),3.03-3.27(2H,m),3.44-3.51(2H,m),4.02-4.22(2H,m),4.74(1H,t,)=5.3Hz),4.76-4.85(1H,br),4.87-5.06(1H,m),6.52(1H,s),6.70-6.78(1H,m),6.87(1H,d,)=8.8Hz),7.00-7.08(1H,m),7.19(2H,dd,)=2.98.8Hz),7.24(1H,d,)=2.9Hz),7.67(1H,d,)=8.8Hz),8.47(1H,t,)=5.4Hz). 1.69(3H,t,)=19.6Hz),2.31-2.46(1H,br),2.61-2.83(1H,br),3.05-3.27(3H,m),3.43-3.50(2H,m),4.34(2H,t,)=12.7Hz),4.68-4.86(2H,m),6.50(1H,s),6.73-6.78(1H,m),6.89(1H,d,)=8.8Hz),7.01-7.13(2H,m),7.20(1H,dd,)=2.98.8Hz),7.31(1H,d,)=2.9Hz),8.43(1H,t,)=5.4Hz). 0.97(3H,t,)=7.3Hz),1.61-1.72(2H,m),2.31-2.47(1H,br),2.65-2.81(1H,br),2.99-3.17(3H,m),3.32-3.40(2H,m),3.52-3.61(1H,m),3.90(2H,t,)=7.3Hz),4.54(1H,t,)=5.9Hz),4.75-4.87(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.85(1H,d,)=8.8Hz),6.95(1H,dd,)=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dt,)=1.4,8.8Hz),8.45(1H,t,)=5.9Hz),4.76-4.90(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.86(1H,d,)=8.8Hz),6.94(1H,dd,)=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.9Hz),4.76-4.90(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.86(1H,d,)=8.8Hz),6.94(1H,dd,)=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.93(3H,t,)=6.8Hz),1.61-1.72(2H,m),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31-3.20(3H,m),3.3		, , , , , , , , , , , , , , , , , , , ,
422(2H,m),4.74(1H,t,)=5.3Hz),4.76-4.85(1H,br),4.87-5.06(1H,m),6.52(1H,s),6.70-6.78(1H,m),6.87(1H,d,)=8.8Hz),7.00-7.08(1H,m),6.87(1H,d,)=2.9,8.8Hz),7.24(1H,d,)=2.9Hz),7.67(1H,d,)=8.8Hz),8.47(1H,t,)=5.4Hz). 1.69(3H,t,)=19.6Hz),2.31-2.46(1H,br),2.61-2.83(1H,br),3.05-3.27(3H,m),3.43-3.50(2H,m),4.34(2H,t,)=12.7Hz),4.68-4.86(2H,m),6.50(1H,s),6.73-6.78(1H,m),6.89(1H,d,)=8.8Hz),7.01-7.13(2H,m),7.20(1H,dd,)=2.9,8.8Hz),7.31(1H,d,)=2.9Hz),8.43(1H,t,)=5.4Hz). 0.97(3H,t,)=7.3Hz),1.61-1.72(2H,m),2.31-2.47(1H,br),2.65-2.81(1H,br),2.99-3.17(3H,m),3.32-3.40(2H,m),3.52-3.61(1H,m),3.90(2H,t,)=7.3Hz),4.54(1H,t,)=5.9Hz),4.75-4.87(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.85(1H,d,)=8.8Hz),6.95(1H,dd,)=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.9Hz),4.76-4.90(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.86(1H,d,)=8.8Hz),6.94(1H,dd,)=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.93(3H,t,)=6.8Hz),1.61-1.72(2H,m),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.31-3.30(2H,m),3.30		
6.78(1H,m),6.87(1H,d,)=8.8Hz),7.00- 7.08(1H,m),7.19(2H,dd,)=2.9,8.8Hz),7.24(1H,d,)=2.9Hz),7.67(1H,d,)=8.8Hz),8.47(1H,t,)=5.4Hz). 1.69(3H,t,)=19.6Hz),2.31-2.46(1H,br),2.61-2.83(1H,br),3.05-3.27(3H,m),3.43- 3.50(2H,m),4.34(2H,t,)=12.7Hz),4.68-4.86(2H,m),6.50(1H,s),6.73-6.78(1H,m),6.89(1H,d,)=8.8Hz),7.01- 7.13(2H,m),7.20(1H,dd,)=2.9,8.8Hz),7.31(1H,d,)=2.9Hz),8.43(1H,t,)=5.4Hz). 0.97(3H,t,)=7.3Hz),1.61-1.72(2H,m),2.31-2.47(1H,br),2.65-2.81(1H,br),2.99-3.17(3H,m),3.32- 3.40(2H,m),3.52-3.61(1H,m),3.90(2H,t,)=7.3Hz),4.54(1H,t,)=5.9Hz),4.75- 4.87(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.85(1H,d,)=8.8Hz),6.95(1H,dd,)=2.5,8.8Hz),7.12- 7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.98(3H,t,)=7.3Hz),1.61-1.71(2H,m),2.30-2.46(1H,br),2.65-2.80(1H,br),2.99-3.20(3H,m),3.32- 3.39(2H,m),3.51-3.62(1H,m),3.90(2H,t,)=7.3Hz),4.54(1H,t,)=5.9Hz),4.76- 4.90(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.86(1H,d,)=8.8Hz),6.94(1H,dd,)=2.5,8.8Hz),7.12- 7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.93(3H,t,)=6.8Hz),1.61-1.72(2H,m),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31- 3.30(2H,m),3.52,3.63(1H,m),3.90(2H,t)=6.8Hz),4.56(1H,t)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,1.11,1.11,1.11,1.11,1.11,1.11,1.11		
7.08(1H,m),7.19(2H,dd,J=2,9,8.8Hz),7.24(1H,d,J=2.9Hz),7.67(1H,d,J=8.8Hz),8.47(1H,t,J=5.4Hz). 1.69(3H,t,J=19.6Hz),2.31-2.46(1H,br),2.61-2.83(1H,br),3.05-3.27(3H,m),3.43- 3.50(2H,m),4.34(2H,t,J=12.7Hz),4.68-4.86(2H,m),6.50(1H,s),6.73-6.78(1H,m),6.89(1H,d,J=8.8Hz),7.01- 7.13(2H,m),7.20(1H,dd,J=2.9,8.8Hz),7.31(1H,d,J=2.9Hz),8.43(1H,t,J=5.4Hz). 0.97(3H,t,J=7.3Hz),1.61-1.72(2H,m),2.31-2.47(1H,br),2.65-2.81(1H,br),2.99-3.17(3H,m),3.32- 3.40(2H,m),3.52-3.61(1H,m),3.90(2H,t,J=7.3Hz),4.54(1H,t,J=5.9Hz),4.75- 4.87(2H,m),6.40(1H,s),6.71(1H,d,J=8.8Hz),6.85(1H,d,J=8.8Hz),6.95(1H,dd,J=2.5,8.8Hz),7.12- 7.19(2H,m),7.24(1H,t,J=8.8Hz),7.34(1H,dd,J=1.4,8.8Hz),8.45(1H,t,J=5.4Hz). 0.98(3H,t,J=7.3Hz),1.61-1.71(2H,m),2.30-2.46(1H,br),2.65-2.80(1H,br),2.99-3.20(3H,m),3.32- 3.39(2H,m),3.51-3.62(1H,m),3.90(2H,t,J=7.3Hz),4.54(1H,t,J=5.9Hz),4.76- 4.90(2H,m),6.40(1H,s),6.71(1H,d,J=8.8Hz),6.86(1H,d,J=8.8Hz),6.94(1H,dd,J=2.5,8.8Hz),7.12- 7.19(2H,m),7.24(1H,t,J=8.8Hz),7.34(1H,dd,J=1.4,8.8Hz),8.45(1H,t,J=5.4Hz). 0.93(3H,t,J=6.8Hz),1.61-1.72(2H,m),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31- 3.30(2H,m),3.52,3.63(1H,m),3.90(2H,t,J=6.8Hz),4.56(1H,t,J=5.9Hz),4.52,4.86(2H,m),6.53(1H,s),6.71,1.	55	
1.69(3H,t,)=19.6Hz),2.31-2.46(1H,br),2.61-2.83(1H,br),3.05-3.27(3H,m),3.43- 3.50(2H,m),4.34(2H,t,)=12.7Hz),4.68-4.86(2H,m),6.50(1H,s),6.73-6.78(1H,m),6.89(1H,d,)=8.8Hz),7.01- 7.13(2H,m),7.20(1H,dd,)=2.98.8Hz),7.31(1H,d,)=2.9Hz),8.43(1H,t,)=5.4Hz). 0.97(3H,t,)=7.3Hz),1.61-1.72(2H,m),2.31-2.47(1H,br),2.65-2.81(1H,br),2.99-3.17(3H,m),3.32- 3.40(2H,m),3.52-3.61(1H,m),3.90(2H,t,)=7.3Hz),4.54(1H,t,)=5.9Hz),4.75- 4.87(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.85(1H,d,)=8.8Hz),6.95(1H,dd,)=2.5,8.8Hz),7.12- 7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.98(3H,t,)=7.3Hz),1.61-1.71(2H,m),2.30-2.46(1H,br),2.65-2.80(1H,br),2.99-3.20(3H,m),3.32- 3.39(2H,m),3.51-3.62(1H,m),3.90(2H,t,)=7.3Hz),4.54(1H,t,)=5.9Hz),4.76- 4.90(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.86(1H,d,)=8.8Hz),6.94(1H,dd,)=2.5,8.8Hz),7.12- 7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.93(3H,t,)=6.8Hz),1.61-1.72(2H,m),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31- 3.30(2H,m),3.52-3.63(1H,m),3.90(2H,t,)=6.8Hz),4.56(1H,t,)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.65(1H,t,)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.65(1H,t,)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.65(1H,t,)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.65(1H,t,)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.65(1H,t,)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.65(1H,t,)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.65(1H,t,)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.65(1H,t,)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.65(1H,t,)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.65(1H,t,)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.65(1H,t,)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.65(1H,t,)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.65(1H,t,)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.65(1H,t,)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.65(1H,t,)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.65(1H,t,)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.65(1H,t,)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.65(1H,t,)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.65(1H,t,)=5.9Hz),4.52(4.86(2H,m),6.		, , , , , , , , , , , , , , , , , , , ,
3.50(2H,m),4.34(2H,t,=12.7Hz),4.68-4.86(2H,m),6.50(1H,s),6.73-6.78(1H,m),6.89(1H,d,)=8.8Hz),7.01-7.13(2H,m),7.20(1H,dd,)=2.9,8.8Hz),7.31(1H,d,)=2.9Hz),8.43(1H,t,)=5.4Hz). 0.97(3H,t,)=7.3Hz),1.61-1.72(2H,m),2.31-2.47(1H,br),2.65-2.81(1H,br),2.99-3.17(3H,m),3.32-3.40(2H,m),3.52-3.61(1H,m),3.90(2H,t,)=7.3Hz),4.54(1H,t,)=5.9Hz),4.75-4.87(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.85(1H,d,)=8.8Hz),6.95(1H,dd,)=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.98(3H,t,)=7.3Hz),1.61-1.71(2H,m),2.30-2.46(1H,br),2.65-2.80(1H,br),2.99-3.20(3H,m),3.32-3.39(2H,m),3.51-3.62(1H,m),3.90(2H,t,)=7.3Hz),4.54(1H,t,)=5.9Hz),4.76-4.90(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.86(1H,d,)=8.8Hz),6.94(1H,dd,)=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.93(3H,t,)=6.8Hz),1.61-1.72(2H,m),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.20(2H,t,)=6.8Hz),4.56(1H,t,t,)=5.9Hz),4.56(2H,m),6.53(1H,s),6.71,1.56(2H,m),3.52-3.63(1H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.20(2H,t,)=6.8Hz),4.56(1H,t,t,)=5.9Hz),4.56(2H,m),6.53(1H,s),6.71,1.56(2H,m),3.52-3.63(1H,m),3.20(2H,t,)=6.8Hz),4.56(1H,t,t,)=5.9Hz),4.56(2H,m),6.53(1H,s),6.71,1.56(2H,m),3.52-3.63(1H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.20(2H,t,)=6.8Hz),4.56(1H,t,t,)=5.9Hz),4.56(2H,m),6.53(1H,s),6.71,1.56(2H,m),3.52-3.63(1H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.30(2H,t,m),3.52-3.63(1H,m),3.52-3.63(1H,m),3.52-3.63(1H,m),3.52-3.63(1H,m),3.52-3.63(1H,m),3.52-3.63(1H,m),3.52-3.63(1H,m),3.52-3.63(1H,m),3.52-3.63(1H,m),3.52-3.63(1H,m),3.52-3.63(1H,m),3.52-3.63(1H,m),3.52-3.63(1H,m),3.52-3.63(1H,m),3.52-3.63(1H,m),3.61-3.83(1H,m),	<u> </u>	
7.13(2H,m),720(1H,dd,J=2.9,8.8Hz),731(1H,d,J=2.9Hz),8.43(1H,t,J=5.4Hz). 0.97(3H,t,J=7.3Hz),1.61-1.72(2H,m),2.31-2.47(1H,br),2.65-2.81(1H,br),2.99-3.17(3H,m),3.32-3.40(2H,m),3.52-3.61(1H,m),3.90(2H,t,J=7.3Hz),4.54(1H,t,J=5.9Hz),4.75-4.87(2H,m),6.40(1H,s),6.71(1H,d,J=8.8Hz),6.85(1H,d,J=8.8Hz),6.95(1H,dd,J=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,J=8.8Hz),7.34(1H,dd,J=1.4,8.8Hz),8.45(1H,t,J=5.4Hz). 0.98(3H,t,J=7.3Hz),1.61-1.71(2H,m),2.30-2.46(1H,br),2.65-2.80(1H,br),2.99-3.20(3H,m),3.32-3.39(2H,m),3.51-3.62(1H,m),3.90(2H,t,J=7.3Hz),4.54(1H,t,J=5.9Hz),4.76-4.90(2H,m),6.40(1H,s),6.71(1H,d,J=8.8Hz),6.86(1H,d,J=8.8Hz),6.94(1H,dd,J=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,J=8.8Hz),7.34(1H,dd,J=1.4,8.8Hz),8.45(1H,t,J=5.4Hz). 0.93(3H,t,J=6.8Hz),1.61-1.72(2H,m),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.90(2H,t,J=6.8Hz),4.56(1H,t,J=5.9Hz),4.56(2H,m),6.53(1H,s),6.71,4.66(2H,s	56	
84 0.97(3H,t,=7.3Hz),1.61-1.72(2H,m),2.31-2.47(1H,br),2.65-2.81(1H,br),2.99-3.17(3H,m),3.32-3.40(2H,m),3.52-3.61(1H,m),3.90(2H,t,=7.3Hz),4.54(1H,t,)=5.9Hz),4.75-4.87(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.85(1H,d,)=8.8Hz),6.95(1H,dd,)=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.98(3H,t,)=7.3Hz),1.61-1.71(2H,m),2.30-2.46(1H,br),2.65-2.80(1H,br),2.99-3.20(3H,m),3.32-3.39(2H,m),3.51-3.62(1H,m),3.90(2H,t,)=7.3Hz),4.54(1H,t,)=5.9Hz),4.76-4.90(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.86(1H,d,)=8.8Hz),6.94(1H,dd,)=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.93(3H,t,)=6.8Hz),1.61-1.72(2H,m),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31-3.90(2H,m),3.52-3.63(1H,m),3.90(2H,t,)=6.8Hz),4.56(1H,t,t,)=5.9Hz),4.52-4.86(2H,m),6.53(1H,s),6.71.	30	
3.40(2H,m),3.52-3.61(1H,m),3.90(2H,t,)=7.3Hz),4.54(1H,t,)=5.9Hz),4.75- 4.87(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.85(1H,d,)=8.8Hz),6.95(1H,dd,)=2.5,8.8Hz),7.12- 7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.98(3H,t,)=7.3Hz),1.61-1.71(2H,m),2.30-2.46(1H,br),2.65-2.80(1H,br),2.99-3.20(3H,m),3.32- 3.39(2H,m),3.51-3.62(1H,m),3.90(2H,t,)=7.3Hz),4.54(1H,t,)=5.9Hz),4.76- 4.90(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.86(1H,d,)=8.8Hz),6.94(1H,dd,)=2.5,8.8Hz),7.12- 7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.93(3H,t,)=6.8Hz),1.61-1.72(2H,m),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31- 3.30(2H,m),3.52-3.63(1H,m),3.90(2H,t,)=6.8Hz),4.56(1H,t,)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71.		
4.87(2H,m),6.40(1H,s),6.71(1H,d,J=8.8Hz),6.85(1H,d,J=8.8Hz),6.95(1H,dd,J=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,J=8.8Hz),7.34(1H,dd,J=1.4,8.8Hz),8.45(1H,t,J=5.4Hz). 0.98(3H,t,J=7.3Hz),1.61-1.71(2H,m),2.30-2.46(1H,br),2.65-2.80(1H,br),2.99-3.20(3H,m),3.32-3.39(2H,m),3.51-3.62(1H,m),3.90(2H,t,J=7.3Hz),4.54(1H,t,J=5.9Hz),4.76-4.90(2H,m),6.40(1H,s),6.71(1H,d,J=8.8Hz),6.86(1H,d,J=8.8Hz),6.94(1H,dd,J=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,J=8.8Hz),7.34(1H,dd,J=1.4,8.8Hz),8.45(1H,t,J=5.4Hz). 0.93(3H,t,J=6.8Hz),1.61-1.72(2H,m),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.30(2H,t),6.71,4.88(1H,t),3.65(1H,t),3.00-3.21(3H,m),6.53(1H,s),6.71,4.88(1H,t),3.61(1H,t),3.00-3.21(3H,m),6.53(1H,s),6.71,4.88(1H,t),3.61(1H,t),3.00-3.21(3H,m),6.53(1H,s),6.71,4.88(1H,t),3.61(1H,t),3.00-3.21(3H,m),6.53(1H,s),6.71,4.88(1H,t),3.61(1H,t),3.00-3.21(3H,m),6.53(1H,s),6.71,4.88(1H,t),3.00-3.21(3H,m),6.53(1H,s),6.71,4.88(1H,t),3.00-3.21(3H,m),6.53(1H,s),6.71,4.88(1H,t),3.00-3.21(3H,m),6.53(1H,s),6.71,4.88(1H,t),3.00-3.21(3H,t),3.00-3.21(3H,t),3.00-3.21(3H,t),3.00-3.21(3H,t),3.00-3.21(3H,t),3.00-3.21(3H,t),3.00-3.21(3H,t),3.00-3.		
7.19(2H,m),724(1H,t,)=8.8Hz),734(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.98(3H,t,)=7.3Hz),1.61-1.71(2H,m),2.30-2.46(1H,br),2.65-2.80(1H,br),2.99-3.20(3H,m),3.32-3.39(2H,m),3.51-3.62(1H,m),3.90(2H,t,)=7.3Hz),4.54(1H,t,)=5.9Hz),4.76-4.90(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.86(1H,d,)=8.8Hz),6.94(1H,dd,)=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.93(3H,t,)=6.8Hz),1.61-1.72(2H,m),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31-3.30(2H,m),3.52-3.63(1H,m),3.30(2H,t)=6.8Hz),4.56(1H,t)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.86(2H,m),3.52(3.63(1H,m),3.30(2H,t)=6.8Hz),4.56(1H,t)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.86(2H,m),3.52(3.63(1H,m),3.30(2H,t)=6.8Hz),4.56(1H,t)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.86(2H,m),3.52(3.63(1H,m),3.30(2H,t)=6.8Hz),4.56(1H,t)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.86(2H,m),3.52(3.63(1H,m),3.30(2H,t)=6.8Hz),4.56(1H,t)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71,4.86(2H,m),6.71,4.86(2H,m),6.71,4.86(2H,m),6.71,4.86(2H,m),6.71,4.86(2H,m),6.71,4.86(2H,m),6.71,4.86(2H,m),6.71,4.86(2H,m),6.71,4.86(2H,m),6.71,4.86(2H,m),6.71,4.86(2	84	, , , , , , , , , , , , , , , , , , , ,
0.98(3H,t,)=7.3Hz),1.61-1.71(2H,m),2.30-2.46(1H,br),2.65-2.80(1H,br),2.99-3.20(3H,m),3.32-3.39(2H,m),3.51-3.62(1H,m),3.90(2H,t,)=7.3Hz),4.54(1H,t,)=5.9Hz),4.76-4.90(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.86(1H,d,)=8.8Hz),6.94(1H,dd,)=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.93(3H,t,)=6.8Hz),1.61-1.72(2H,m),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31-3.30(2H,m),3.52,3.63(1H,m),3.30(2H,t)=6.8Hz),4.56(1H,t)=5.9Hz),4.52,4.86(2H,m),6.53(1H,s),6.71-1.30(2H,t)=6.8Hz),4.56(1H		
339(2H,m)3.51-3.62(1H,m)3.90(2H,t,)=7.3Hz),4.54(1H,t,)=5.9Hz),4.76- 4.90(2H,m),6.40(1H,s),6.71(1H,d,)=8.8Hz),6.86(1H,d,)=8.8Hz),6.94(1H,dd,)=2.5,8.8Hz),7.12- 7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.93(3H,t,)=6.8Hz),1.61-1.72(2H,m),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31- 3.30(2H,m),3.52,3.63(1H,m),3.90(2H,t,)=6.8Hz),4.56(1H,t,)=5.9Hz),4.52(4.86(2H,m),6.53(1H,s),6.71-		
4.90(2H,m),6.40(1H,s),6.71(1H,d,J=8.8Hz),6.86(1H,d,J=8.8Hz),6.94(1H,dd,J=2.5,8.8Hz),7.12-7.19(2H,m),7.24(1H,t,J=8.8Hz),7.34(1H,dd,J=1.4,8.8Hz),8.45(1H,t,J=5.4Hz). 0.93(3H,t,J=6.8Hz),1.61-1.72(2H,m),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31-3.30(2H,m),3.52,3.63(1H,m),3.30(2H,t),6.53(1H,t),6.53(,
7.19(2H,m),7.24(1H,t,)=8.8Hz),7.34(1H,dd,)=1.4,8.8Hz),8.45(1H,t,)=5.4Hz). 0.93(3H,t,)=6.8Hz),1.61-1.72(2H,m),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31- 3.30(2H,m),3.52,3.63(1H,m),3.92(2H,t)=6.8Hz),4.56(1H,t)=5.9Hz),4.52,4.86(2H,m),6.53(1H,c),6.71-	85	
0.93(3H,t,)=6.8Hz),1.61-1.72(2H,m),2.31-2.46(1H,br),2.61-2.83(1H,br),3.00-3.21(3H,m),3.31-		
2.30/21 m) 3.52.3.63/14 m) 3.07/24+ \(\) 6.84-3\(\) 56/14+ \(\) 5.04-3\(\) 52/4.86/24 m) 6.53/14-6) 6.71.		
Xh Xh X X X X X X X X	0.5	
6.77(1H,m),6.85(1H,d,J=8.8Hz),6.99(1H,dd,J=2.0,8.8Hz),7.04(1H,dt,J=2.0,8.8Hz),7.17(1H,d,J=2.0Hz),7.	86	
21(1H,dd,J=2.0,8.8Hz),8.42(1H,t,J=5.3Hz).		• • • • • • • • • • • • • • • • • • • •

(Table 19, continued)

Ex	NMR
	1.32(3H,dd,)=6.3,23.4Hz),2.34-2.46(1H,br),2.55-2.83(1H,br),3.20-3.32(3H,m),3.35-3.40(2H,m),3.52-
129	3.60(1H,m),4.00-420(2H,m),4.50-4.59(1H,m),4.73-
12,9	5.05(3H,m),639(1H,s),6.72(1H,d,)=8.8Hz),6.87(1H,d,)=8.8Hz),698(1H,dd,)=2.5,8.8Hz),7.15(1H,dt,)=2.
	5,8.8Hz),7.19-7.27(2H,m),7.34(1H,dd,J=1.4,8.8Hz),8.47(1H,t,J=5.4Hz).
	1.31(3H,dd,J=6.3,23.4Hz),2.26-2.47(1H,br),2.62-2.84(1H,br),3.00-3.23(3H,m),3.32-3.38(2H,m),3.53-
130	3.62(1H,m),4.00-4.20(2H,m),4.45(1H,t,J=5.4Hz),4.76-
150	5.05(3H,m),6.40(1H,s),6.72(1H,d,1=7.8Hz),6.88(1H,d,1=8.8Hz),6.99(1H,dd,1=2.5,8.8Hz),7.15(1H,dt,1=1.
	4,7.8Hz),720-728(2H,m),734(1H,dd,J=1.4,7.8Hz),8.47(1H,t,J=5.9Hz).
	1.31(3H,dd,J=6.4,23.4Hz),2.30-2.46(1H,br),2.54-2.80(1H,br),3.00-3.32(3H,m),3.34-3.40(2H,m),3.52-
132	3.61(1H,m),4.00-4.20(2H,m),4.51-4.60(1H,m),4.72-
132	5.05(3H,m),6.40(1H,s),6.72(1H,d,)=8.8Hz),6.87(1H,d,)=8.8Hz),6.99(1H,dd,)=2.5,8.8Hz),7.15(1H,dd,)=2
	.5,8.8Hz),7.19-7.29(2H,m),7.31-7.36(1H,m),8.46(1H,t,)=5.4Hz).
	133(3H,dd,J=63,23,9Hz),2.27-2.46(3H,m),2.60-2.84(1H,br),3.22-3.34(1H,br),3.34-3.40(2H,m),4.00-
133	4.22(2H,m),4.70-5.06(2H,m),6.44(1H,s),6.71-6.76(1H,m),6.81-6.89(2H,m),7.01-
	7.07(2H,m),7.19(1H,dd,J=2.9,8.8Hz),7.24(1H,d,J=2.9Hz),7.33-7.38(1H,br),8.45-8.52(1H,br).
	1.33(3H,dd,J=6.4,29.8Hz),2.26-2.46(3H,m),2.64-2.87(1H,br),3.00-3.23(1H,br),3.27-3.42(2H,m),4.01-
134	4.22(2H,m),4.66-5.07(2H,m),6.49(1H,s),6.71-6.78(1H,m),6.87(2H,d,J=8.8Hz),7.00-
	7.08(2H,m),7.19(1H,dd,J=2.9,8.8Hz),7.24(1H,d,J=2.9Hz),7.33-7.39(1H,br),8.50(1H,t,J=5.4Hz).
,	132(3H,dd,)=63,23.9Hz),2.32-2.46(1H,br),2.63-2.84(1H,br),3.00-3.24(3H,m),3.33-3.40(2H,m),3.52-
135	3.61(1H,m),4.01-4.21(2H,m),4.57(1H,t,J=5.3Hz),4.73-5.06(3H,m),6.52(1H,s),6.72-
	6.78(1H,m),6.87(1H,d,J=8.8Hz),7.00-7.08(2H,m),7.18-7.26(2H,m),8.38-8.48(1H,m).
	133(3H,dd,F63,13.4Hz),234-2.47(1H,br),2.56-2.82(1H,br),3.01-3.32(3H,m),3.33-3.39(2H,m),3.52-
136	3.61(1H,m),4.02-4.22(2H,m),4.57(1H,t,J=5.4Hz),4.75-4.85(2H,m),4.87-5.07(1H,m),6.51(1H,s),6.71-
	6.77(1H,m),6.87(1H,d,J=8.3Hz),7.01-7.08(2H,m),7.19-7.25(2H,m),8.43(1H,t,J=5.4Hz).
	1.69(3H,t,)=19.3Hz),2.26-2.47(3H,m),2.62-2.83(1H,br),3.05-3.22(1H,br),3.25-
140	3.44(2H,m),4.34(2H,t,J=12.4Hz),4.68-4.92(1H,br),6.48(1H,s),6.72-6.77(1H,m),6.83-6.95(2H,m),7.01-
	7.13(2H,m),7.19(1H,dd,J=2.9,8.8Hz),7.30(1H,d,J=2.9Hz),7.34-7.40(1H,br),8.50(1H,t,J=5.3Hz).

In the following, structures of other compounds of the invention are shown in Tables 20 to 36. These are synthesized or can be synthesized by using the aforementioned production methods or the methods described in Examples, or methods obvious to those skilled in the art or modified methods thereof.

In this connection, signs in the tables represent the following meanings.

No: compound number.

R^{1A}, -A^A-B^A, X, Y: substituent groups in respective general formulae, iPr: isopropyl, tBu: tert-butyl, cBu: cyclobutyl, nPen: normal pentyl, cPen: cyclopentyl, iAm: isoamyl, nHex: normal hexyl, pyrr: pyrrolidin-1-yl, pipe: piperidin-1-yl, pipa: piperazin-1-yl, mor: morpholin-4-yl, Ac: acetyl, Ms: methanesulfonyl, cyano: cyano.

(Table 20)

		, <u></u>		-	
No	R ^{1A}	-A ^A -B ^A	No	RIA	-A ^A -B ^A
A1	Gły	-O-Me	A30	Car	-O-(CH ₂) ₂ -cyano
A2	Gly	-O-Et	A31	Etha	-O-CH ₂ CH(Me)OMe
A3	Etha	-O-Et	A32	_ Etha	-O-CH ₂ CH(Me)OMe
A4	Car	-O-Et	A33	Car	-O-CH ₂ CH(Me)OMe
A5	Etha	-O-iPr	A34	Etha	-O-CH ₂ CF ₂ CF ₃
A6	Car	-O-nBu	A35	Car	-O-CH ₂ CF ₂ CF ₃
A7	Car	-O-iBu	A36	_Etha	-O-CH ₂ CF ₂ CHF ₂
A8	Gly	-O-tBu	A37	Car	-O-CH ₂ CF ₂ CHF ₂
A9	Gly	-O-iAm	A38	Gły	-O-(CH ₂) ₂ OH
A10	Gly	-O-nPen	A39	Etha	-O-(CH ₂) ₂ OH
A11	Etha	-O-nHex	A40	Car	-O-(CH ₂) ₂ OH
A12	Gly	-O-cPen	A41	Gly	-O-CH ₂ CO ₂ H
A13	Gly	-O-Ph	A42	Etha	-O-CH ₂ CO ₂ H
A14	Car	-O-Ph	A43	Car	-O-CH ₂ CO ₂ H
A15_	Gły	-O-CH ₂ CF ₃	A44	Etha	-N(Me)-iBu
A16	Gly	-O-CH ₂ CHF ₂	A45	Car	-N(Me)-iBu
A17	Gly	-O-CH ₂ CH≡CH	A46	Etha	-S-Et
A18	Gly	-O-(CH ₂) ₂ CH≡CH	A47	Car	-S-Et
A19	Gly	-O-(CH ₂) ₂ OMe	A48	Gły	-S-iPr
A20	Car	-O-CH ₂ cPr	A49	Etha	-S-iPr
A21	Gly	-O-CH₂cBu	A50	Car	-S-iP r
A22	Car	-O-CH ₂ cBu	A51	Gly	-N(Me)-CH2CH2OMe
A23	Gly	-O-CH₂tBu	A52	Etha	-N(Me)-CH ₂ CH ₂ OMe
A24	Etha	-O-CH₂tBu	A53	Car	-N(Me)-CH2CH2OMe
A25	Gły	-O-CH ₂ CONH ₂	A55	Gły	-N(Me)-nBu
A27	Gły	-O-CH ₂ CONHMe	A56	Etha	-N(Me)-nBu
A28	Gły	-O-(CH ₂) ₂ -cyano	A57	Car	-N(Me)-nBu
A29	Etha	-O-(CH ₂) ₂ -cyano	A.58	Etha	-N(nPr)-nPr

(Table 21)

No	R ^{1A}	-A ^A -B ^A
A59	-NHCH2CH(S-OH)CH2OH	(S)-O-CH ₂ CHFCH ₃
A60	-NHCH2CH(S-OH)CH2OH	(R)-O-CH ₂ CHFCH ₃

(Table 22)

No	R ^{1A}	-A ^A -B ^A
A61	Gly	-O-Et
A62	Car	-O-nPr
A63	Gly	-O-iPr
A64	Etha	-O-nBu

(Table 23)

				, , , , , , , , , , , , , , , , , , ,
No	R ^{IA}	-X-	Y	-A ^A -B ^A
B1	Gly	-N=C-	N	-O-nPr
B2	Etha	-N=C-	N	-O-nPr
B3	Car	-N⊨C-	N	-O-nPr
B4	Gły	-N=C-	N	-O-iBu
B5	Etha	-N=C-	N	-O-iBu
B6	Car	-N=C-	N	-O-iBu
B7	Gly	-N=C-	N	-S-nPr
B8	Etha	-N=C-	N	-S-nPr
B9	Car	-N≒C-	N	-S-nPr
B10	Gly	-N=C-	N	-N(Me)-nPr
B11	Etha	-N⊨C-	N	-N(Me)-nPr
B12	Car	-N⊨C-	N	-N(Me)-nPr
B13	Gly	-N=N-	CH	-O-nPr
B14	Etha	-N=N-	CH	-O-nPr
B15	Car	-N=N-	CH	-O-nPr
B16	Gly	-N = N-	CH	-O-iBu
B17	Etha	-N=N-	CH	-O-iBu
B18	Car	-N=N-	CH	-O-iBu
B19	Gly	-N=N-	CH	-S-nPr
B20	Etha	-N=N-	CH	-S-nPr
B21	Car	-N=N-	CH	-S-nPr
B22	Gly	-N=N-	CH	-N(Me)-nPr
B23	Etha	-N = N-	CH	-N(Me)-nPr
B24	Car	-N=N-	CH	-N(Me)-nPr
B25	Gły	-Ş-	N	-O-nPr
B26	Etha	-S-	N	-O-nPr
B27	Car	-S-	N	-O-nPr
B28	Gły	-S-	N	-O-iBu
B29	Etha	ş	N	-O-iBu
B30	Car	ş	N	-O-iBu
B31	Gły	-Ş-	N	-S-nPr
B32	Etha	-S-	Z	-S-nPr
B33	Car	-S-	N	-S-nPr
B34	Gly	-S-	N	-N(Me)-nPr
B35	Etha	-S-	N	-N(Me)-nPr

(Table 24)

No	R ^{IA}	-X-	Y	-A ^A -B ^A
B36	Car	-S-	N	-N(Me)-nPr
B37	Gły	-N=C-	CH	-O-nPr
B38	Etha	-N=C-	CH	-O-nPr
B39	Car	-N=C-	CH	-O-nPr
B40	Gly	-N=C-	CH	-O-iBu
B41	Etha	-N=C-	CH	-O-iBu
B42	Car	-N=C-	CH	-O-iBu
B43	Gly	-N=C-	CH	-S-nPr
B44	Etha	-N=C-	CH	-S-nPr
B45	Car	-N=C-	CH	-S-nPr
B46	Gly	-N=C-	CH	-N(Me)-nPr
B47	Etha	-N=C-	CH	-N(Me)-nPr
B48	Car	-N≒C-	CH	-N(Me)-nPr

(Table 25)

No	R ^{IA}	-X-	Y	-A ^A -B ^A
B49	Etha	- Ç - C-	N	-O-nPr
B50	Gły	-C=C-	N	-O-iBu
B51	Etha	'	N	-O-iBu
B52	Car	'	N	-O-iBu
B53	Gly	Ç-	N	-S-nPr
B54	Etha	'	N	-S-nPr
B55	Car	¢ -	N	-S-nPr
B56	Gly	'	N	-N(Me)-nPr
B57	Etha	宁	N	-N(Me)-nPr
B58	Car	'	N	-N(Me)-nPr
B59	Gly	ş	CH	-O-nPr
B60	Etha	φ	CH	-O-nPr
B61	Car	- Ş-	CH	-O-nPr
B62	Gły	φ	CH	-O-iBu
B63	Etha	¢	CH	-O-iBu
B64	Car	- Ş-	CH	-O-iBu
B65	Gły	<mark>ጐ</mark>	CH	-S-nPr
B66	Etha	ቃ	CH	-S-nPr
B67	Car	-Ş-	CH	-S-nPr

(Table 26)

No	RIA	X	Y	-A ^A -B ^A
B68	Gly	N_	S	-N(Me)-nPr
B69	Etha	N	S	-N(Me)-nPr
B70	Car	N_	S	-N(Me)-nPr

(Table 27)

No	RIA	-A ^A -B ^A	No	R ^{lA}	-A ^A -B ^A
C1	Gly	-O-iBu	C10	Gły	-S-iPr
C2	Etha	-O-iBu	C11	Etha	-S-iPr
C3	Car	-O-iBu	C12	Car	-S-iPr
C4	Gly	-O-nBu	C13	Gly	-S-Et
C5	Etha	-O-nBu	C14	Etha	-S-Et
C6	Car	-O-nBu	C15	Car	-S-Et
C7	Gly	-S-nPr	C16	Gly	-N(Me)-nPr
C8	Etha	-S-nPr	C17	Etha	-N(Me)-nPr
C9	Car	-S-nPr	C18	Car	-N(Me)-nPr

(Table 28)

		· · · · · · · · · · · · · · · · · · ·			
No	R^{1A}	$-A^{A}-B^{A}$	No	R ^{1A}	-A ^A -B ^A
C19	Gły	-O-nPr	C30	Car	-S-nPr
C20	Etha	-O-nPr	C31	Gły	-S-iPr
C21	Car	-O-nPr	C32	Etha	-S-iPr
C22	Gly	-O-iBu	C33	Car	-S-iPr
C23	Etha	-O-iBu	C34	Gly	-S-Et
C24	Car	-O-iBu	C35	Etha	-S-Et
C25	Gly	-O-nBu	C36	Car	-S-Et
C26	Etha	-O-nBu	C37	Gly	-N(Me)-nPr
C27	Car	-O-nBu	C38	Etha	-N(Me)-nPr
C28	Gly	-S-nPr	C39	Car	-N(Me)-nPr
C29	Etha	-S-nPr			

(Table 29)

No	R ^{IA}	-A ^A -B ^A	No	RIA	-A ^A -B ^A
C40	Gly	-O-iBu	C49	Gly	-S-iPt
C41	Etha	-O-iBu	C50	Etha	-S-iPr
C42	Car	-O-iBu	C51	Car	-S-iPr
C43	Gły	-O-nBu	C54	Gly	-S-Et
C44	Etha	-O-nBu	C55	Etha	-S-Et
C45	Car	-O-nBu	C56	Car	-S-Et
C46	Gly	-S-nPr	C57	Gly	-N(Me)-nPr
C47	Etha	-S-nPr	C58	Etha	-N(Me)-nPr
C48	Car	-S-nPr	C59	Car	-N(Me)-nPr

(Table 30)

No	RIA	-A ^A -B ^A	No	R ^{1A}	-A ^A -B ^A
C60	Etha	-O-nPr	· C70	Gly	-S-iPr
C61	Gly	-O-iBu	C71	Etha	-S-iPr
C62	Etha	-O-iBu	C72	Car	-S-iPr
C63	Car	-O-iBu	C73	Gly	-S-Et
C64	Gly	-O-nBu	C74	Etha	-S-Et
C65	Etha	-O-nBu	C75	Car	-S-Et
C66	Car	-O-nBu	C76	Gly	-N(Me)-nPr
C67	Gly	-S-nPr	C77	Etha	-N(Me)-nPr
C68	Etha	-S-nPr	C78	Car	-N(Me)-nPr
C69	Car	-S-nPr			

(Table 31)

D1 NHCH _Z (2-Py) D33 4-H ₂ NOC-pipe D2 NHPh D34 NHCH ₂ CO-pyrr D3 NHCH ₂ Ph D35 NHCH ₂ CO-(3-HO-pyrr) D4 NHCH ₂ (2-HO-Ph) D36 NHCH ₂ CO-(3-HO-pyrr) D5 NHCH ₂ (3-HO-Ph) D37 NHCH ₂ CO-(4-HO-pipe) D6 NHCH ₂ (3-HO-Ph) D38 NH-(3-Ac-Ph) D7 NHCH ₂ (2-H ₂ NOC-Ph) D39 NH-(3-MeHNOC-Ph) D8 NHCH ₂ (2-H ₂ NOC-Ph) D40 NHCH ₂ (4-H ₂ NOS-Ph) D9 NHCH ₂ (4-H ₂ NOC-Ph) D41 NH-(3-MeHNOC-Ph) D10 NH-(2-HO-Ph) D42 NHCH ₂ (6-HO-2-Py) D11 NH-(3-HO-Ph) D43 NHCH ₂ (6-HO-2-Py) D12 NH-(4-HO-Ph) D44 NHCH ₂ (6-MeO-2-Py) D13 NH-(2-H ₂ NOC-Ph) D45 NHCH ₂ (6-MeO-2-Py) D14 NH-(3-MoC-Ph) D46 NHCH ₂ (6-MeO-2-Py) D15 NH-(4-H ₂ NOC-Ph) D46 NHCH ₂ (6-MeO-2-Py) D16 NH-(4-H ₂ NOC-Ph) D47 NHCH ₂ (6-Me		T	·	, — — —
D2 NHPh D34 NHCH ₂ CO-pyrr D3 NHCH ₂ Ph D35 NHCH ₂ CO-(3-HO-pyrr) D4 NHCH ₂ C2-HO-Ph) D36 NHCH ₂ CO-(3-HO-pipe) D5 NHCH ₂ C3-HO-Ph) D37 NHCH ₂ CO-(4-HO-pipe) D6 NHCH ₂ C4-HO-Ph) D38 NH-(3-Ac-Ph) D7 NHCH ₂ C2-H ₂ NOC-Ph) D39 NH-(3-MeHNOC-Ph) D8 NHCH ₂ C4-H ₂ NOC-Ph) D40 NHCH ₂ C4-H ₂ NO ₂ S-Ph) D9 NH-CH ₂ C4-H ₂ NOC-Ph) D41 NH-C3-Me-Ph) D10 NH-(2-HO-Ph) D42 NHCH ₂ C6-Mo-2-Py) D11 NH-(3-HO-Ph) D43 NHCH ₂ C6-MeO-2-Py) D12 NH-(4-HO-Ph) D44 NHCH ₂ C6-MeO-2-Py) D13 NH-(2-H ₂ NOC-Ph) D45 NHCH ₂ C6-MeO-2-Py) D14 NH-(3-H ₂ NOC-Ph) D45 NHCH ₂ C6-MeO-2-Py) D15 NH-(4-H ₂ NOC-Ph) D46 NHCH ₂ C6-Me ₂ NOC-2-Py) D16 NH-(4-H ₂ NOC-Ph) D47 NHCH ₂ C6-Me ₂ NOC-2-Py) D16 NH-(4-H ₂ NOC-Ph) D49	No	R ^{IA}	No	R ^{IA}
D3 NHCH ₂ Ph D35 NHCH ₂ CO(3-HO-pyr) D4 NHCH ₂ (2-HO-Ph) D36 NHCH ₂ CO(3-HO-pipe) D5 NHCH ₂ (3-HO-Ph) D37 NHCH ₂ CO(4-HO-pipe) D6 NHCH ₂ (3-HO-Ph) D38 NH-(3-Ac-Ph) D7 NHCH ₂ (2-H ₂ NOC-Ph) D39 NH-(3-Me-HNOC-Ph) D8 NHCH ₂ (3-H ₂ NOC-Ph) D40 NHCH ₂ (4-H ₂ NO ₂ -Ph) D9 NH-CH ₂ (4-H ₂ NOC-Ph) D40 NH-CH ₂ (4-H ₂ NO ₂ -Ph) D10 NH-(2-HO-Ph) D41 NH-(3-Me-Ph) D10 NH-(2-HO-Ph) D42 NH-CH ₂ (6-O-2-Py) D11 NH-(3-HO-Ph) D43 NH-CH ₂ (6-Me-O-2-Py) D12 NH-(4-HO-Ph) D44 NH-CH ₂ (6-Me-O-2-Py) D13 NH-(2-H ₂ NOC-Ph) D45 NH-CH ₂ (6-H ₂ NOC-2-Py) D14 NH-(3-H ₂ NOC-Ph) D46 NH-CH ₂ (6-H ₂ NOC-2-Py) D15 NH-(3-H ₂ NOC-Ph) D47 NH-CH ₂ (6-H ₂ NOC-2-Py) D16 NH-(3-H ₂ NOC-Ph) D48 NH-CH ₂ (6-H ₂ NOC-2-Py) D17 NH-(3-H ₂ NOC-	D1	NHCH ₂ -(2-Py)	D33	4-H ₂ NOC-pipe
D4 NHCH₂(2-HO-Ph) D36 NHCH₂CO(3-HO-pipe) D5 NHCH₂(3-HO-Ph) D37 NHCH₂CO(4-HO-pipe) D6 NHCH₂(4-HO-Ph) D38 NH-(3-Ac-Ph) D7 NHCH₂(2-H₂NOC-Ph) D39 NH-(3-MeHNOC-Ph) D8 NHCH₂(3-H₂NOC-Ph) D40 NHCH₂(4-H₂NOS-Ph) D9 NHCH₂(4-H₂NOC-Ph) D41 NH-(3-MeHNOC-Ph) D10 NH-(2-Ho-Ph) D42 NH-CH₂(6-Ho-2-Py) D11 NH-(3-HO-Ph) D43 NH-CH₂(6-Ho-2-Py) D12 NH-(4-HO-Ph) D44 NH-CH₂(6-Me-0-2-Py) D13 NH-(2-H₂NOC-Ph) D45 NH-CH₂(6-Me-0-2-Py) D14 NH-(3-H₂NOC-Ph) D46 NH-CH₂(6-Me₂NOC-2-Py) D15 NH-(4-H₂NOC-Ph) D47 NH-CH₂(6-Me₂NOC-2-Py) D16 NH-(CH₂)OMe D48 NH-CH₂(6-Me₂NOC-2-Py) D17 NH-(CH₂)OMe D48 NH-CH₂(6-Me₂NO-2-Py) D18 N(CH₂-CH₂OH) D51 NH-CH₂-(6-Me₂NO-2-Py) D19 NH-CH₂-CH₂-CH₂-CH D52 NH-CH₂-(6-C-2-P	D2	NHPh	D34	NHCH₂CO-pyrr
D5 NHCH ₂ (3-HO-Ph) D37 NHCH ₂ CO(4HO-pipe) D6 NHCH ₂ (4-HO-Ph) D38 NH-(3-Ac-Ph) D7 NHCH ₂ (2-H ₂ NOC-Ph) D39 NH-(3-MeHNOC-Ph) D8 NHCH ₂ (3-H ₂ NOC-Ph) D40 NH-CH ₂ (4-H ₂ NO ₂ -Ph) D9 NH-CH ₂ (4-H ₂ NOC-Ph) D41 NH-(3-Ms-Ph) D10 NH-(2-HO-Ph) D42 NH-CH ₂ CO-mor D11 NH-(3-HO-Ph) D43 NH-CH ₂ (6-HO-2-Py) D12 NH-(4-HO-Ph) D44 NH-CH ₂ (6-HO-2-Py) D13 NH-(2-H ₂ NOC-Ph) D45 NH-CH ₂ (6-H ₂ NOC-2-Py) D14 NH-(3-H ₂ NOC-Ph) D46 NH-CH ₂ (6-H ₂ NOC-2-Py) D15 NH-(4-H ₂ NOC-Ph) D47 NH-CH ₂ (6-H ₂ NOC-2-Py) D16 NH-(4-H ₂ NOC-Ph) D47 NH-CH ₂ (6-M ₂ NOC-2-Py) D16 NH-(CH ₂) ₂ OMe D48 NH-CH ₂ (6-H ₂ NO-2-Py) D17 NH-(3-M ₂ H ₂ OM-2-Py) D49 NH-CH ₂ (6-M ₂ N-2-Py) D18 N(CH ₂ CH ₂ OH) D51 NH-CH ₂ (6-M ₂ N-2-Py) D19 N	D3	NHCH₂Ph	D35	NHCH ₂ CO-(3-HO-pyrr)
D6 NHCHz(4HOPh) D38 NH-(3-Ac-Ph) D7 NHCHz(2HzNOC-Ph) D39 NH-(3-MeHNOC-Ph) D8 NHCHz(3-HzNOC-Ph) D40 NHCHz(4HzNOz-Ph) D9 NHCHz(4HzNOC-Ph) D41 NH-(3-Ms-Ph) D10 NH-(2+HO-Ph) D42 NHCHz(CO-mor D11 NH-(3-HO-Ph) D43 NHCHz(6-HO-2-Py) D12 NH-(4+HO-Ph) D44 NHCHz(6-McO-2-Py) D13 NH-(2-HzNOC-Ph) D45 NHCHz(6-McO-2-Py) D14 NH-(3-HzNOC-Ph) D45 NHCHz(6-McO-2-Py) D14 NH-(3-HzNOC-Ph) D46 NHCHz(6-MzNOC-2-Py) D15 NH-(4-HzNOC-Ph) D47 NHCHz(6-MzNOC-2-Py) D16 NH-(Hz)zOMe D48 NHCHz(6-MzN-2-Py) D17 NH-(CHz)zOMe D49 NHCHz(6-MzN-2-Py) D18 N(CHz(CHzOH)z D50 NHCHz(6-Fz-2-Py) D19 NH-CHz(CHzOH) D51 NH-CHz(6-Pz-2-Py) D20 N(Mc)CHzCHzOH D52 NH-CHz(cMz-2-Py)	D4	NHCH ₂ -(2-HO-Ph)	D36	NHCH ₂ CO-(3-HO-pipe)
D7 NHCH _Z (2-H ₂ NOC-Ph) D39 NH-(3-MeHNOC-Ph) D8 NHCH _Z (3-H ₂ NOC-Ph) D40 NHCH _Z (4-H ₂ NO ₂ S-Ph) D9 NHCH _Z (4-H ₂ NOC-Ph) D41 NH-(3-Ms-Ph) D10 NH-(2-HO-Ph) D42 NHCH _Z (6-HO-2-Py) D11 NH-(3-HO-Ph) D43 NHCH _Z (6-HO-2-Py) D12 NH-(4-HO-Ph) D44 NHCH _Z (6-MeO-2-Py) D13 NH-(2-H ₂ NOC-Ph) D45 NHCH _Z (6-MeO-2-Py) D14 NH-(3-H ₂ NOC-Ph) D46 NHCH _Z (6-H ₂ NOC-2-Py) D15 NH-(4-H ₂ NOC-Ph) D47 NHCH _Z (6-Me ₂ NOC-2-Py) D16 NH-(4-H ₂ NOC-Ph) D47 NHCH _Z (6-Me ₂ NOC-2-Py) D16 NH-(CH ₂)OMe D48 NHCH _Z (6-Me ₂ NOC-2-Py) D17 NH-(CH ₂)OMe D49 NHCH _Z (6-Me ₂ N-2-Py) D18 N(CH _Z CH(CH ₂ OH) ₂ D50 NHCH _Z (6-H ₂ O-2-Py) D19 NHCH _Z CH(CH ₂ OH) D51 NHCH _Z (6-C-2-Py) D20 N(Me)CH _Z CH ₂ OH D52 NHCH _Z (6-Me-2-Py) D21 3-	D5	NHCH ₂ -(3-HO-Ph)	D37	NHCH ₂ CO-(4-HO-pipe)
D8 NHCH₂(3-H₂NOC-Ph) D40 NHCH₂(4H₂NO₂S-Ph) D9 NHCH₂(4H₂NOC-Ph) D41 NH-(3-Ms-Ph) D10 NH-(2-HO-Ph) D42 NHCH₂CO-mor D11 NH-(3-HO-Ph) D43 NHCH₂(6-HO-2-Py) D12 NH-(4-HO-Ph) D44 NHCH₂(6-MeO-2-Py) D13 NH-(2-H₂NOC-Ph) D45 NHCH₂(6-MeO-2-Py) D14 NH-(3-H₂NOC-Ph) D46 NHCH₂(6-H₂NOC-2-Py) D15 NH-(4+P₂NOC-Ph) D47 NHCH₂(6-Me₂NOC-2-Py) D15 NH-(4+P₂NOC-Ph) D47 NHCH₂(6-Me₂NOC-2-Py) D16 NH-(2+P₂NOC-Ph) D47 NHCH₂(6-Me₂NOC-2-Py) D17 NH-(2+P₂NOC-Ph) D48 NHCH₂(6-Me₂NOC-2-Py) D17 NH-(2+P₂NOC-Ph) D49 NHCH₂(6-Me₂NO-2-Py) D18 N(CH₂CH₂OH)₂ D50 NHCH₂(6-Me₂NO-2-Py) D19 NHCH₂(CH₂OH)₂ D51 NHCH₂(6-P₂-Py) D20 N(Me)CH₂CH₂OH D52 NHCH₂(6-Me₂-Py) D21 3-HO-pipe D53 NHCH₂-(6-Me₂-Py)	D6	NHCH ₂ (4-HO-Ph)	D38	NH-(3-Ac-Ph)
D9 NHCH₂(4H₂NOC-Ph) D41 NH-(3-Ms-Ph) D10 NH-(2-HO-Ph) D42 NH-CH₂CO-mor D11 NH-(3-HO-Ph) D43 NH-CH₂(6-HO-2-Py) D12 NH-(4-HO-Ph) D44 NH-CH₂(6-MeO-2-Py) D13 NH-(2-H₂NOC-Ph) D45 NH-CH₂(6-MeO-2-Py) D14 NH-(3-H₂NOC-Ph) D46 NH-CH₂(6-MeO-2-Py) D15 NH-(4-H₂NOC-Ph) D47 NH-CH₂(6-Ce-2-Py) D15 NH-(4-H₂NOC-Ph) D47 NH-CH₂(6-MeNOC-2-Py) D16 NH-(2-H₂NOC-Ph) D47 NH-CH₂(6-MeNOC-2-Py) D16 NH-(2-H₂NOC-Ph) D48 NH-CH₂(6-MeNOC-2-Py) D17 NH-(3-M₂-NOC-Ph) D49 NH-CH₂(6-M₂-NOC-2-Py) D18 N(CH₂-CH₂OH) D50 NH-CH₂-(6-M₂-NO-2-Py) D19 NH-CH₂-(1-M₂-OH) D51 NH-CH₂-(6-M₂-NO-2-Py) D19 NH-CH₂-(1-M₂-OH) D52 NH-CH₂-(1-M₂-0-Y) D20 N(Me)-CH₂-(1-M₂-OH) D53 NH-CH₂-(1-M₂-OH) D21 3-HO-pipe D55 NH-CH₂-(1-	D7_	NHCH ₂ (2-H ₂ NOC-Ph)	D39	NH-(3-MeHNOC-Ph)
D10 NH-(2-HO-Ph) D42 NH-CH ₂ CO-mor D11 NH-(3-HO-Ph) D43 NH-CH ₂ (6-HO-2-Py) D12 NH-(4-HO-Ph) D44 NH-CH ₂ (6-MeO-2-Py) D13 NH-(2-H ₂ NOC-Ph) D45 NH-CH ₂ (6-MeO-2-Py) D14 NH-(3-H ₂ NOC-Ph) D46 NH-CH ₂ (6-Me ₂ NOC-2-Py) D15 NH-(4-H ₂ NOC-Ph) D47 NH-CH ₂ (6-Me ₂ NOC-2-Py) D16 NH-(CH ₂)OMe D48 NH-CH ₂ (6-Me ₂ NOC-2-Py) D17 NH-(CH ₂)OMe D49 NH-CH ₂ (6-H ₂ N-2-Py) D18 N(CH ₂ CH ₂ OH) D50 NH-CH ₂ (6-Me ₂ N-2-Py) D19 NH-CH ₂ CH(CH ₂ OH)OH D51 NH-CH ₂ (6-CH-2-Py) D19 NH-CH ₂ CH(CH ₂ OH)OH D51 NH-CH ₂ (6-CH-2-Py) D20 N(Me)CH ₂ CH ₂ OH D52 NH-CH ₂ (6-Me-2-Py) D21 3-HO-pig D53 NH-CH ₂ (pyriadzine-2-yl) D22 3-HO-pige D54 NH-CH ₂ (pyriadzine-2-yl) D23 4-HO-pige D55 NH-CH ₂ (Pyrimidine-2-yl) D24 NH-CH ₂ C	D8	NHCH ₂ (3-H ₂ NOC-Ph)	. D40	NHCH ₂ -(4-H ₂ NO ₂ S-Ph)
D11 NH-(3-HO-Ph) D43 NHCHz-(6-HO-2-Py) D12 NH-(4-HO-Ph) D44 NHCHz-(6-MeO-2-Py) D13 NH-(2-Hz-NOC-Ph) D45 NHCHz-(6-MeO-2-Py) D14 NH-(3-Hz-NOC-Ph) D46 NHCHz-(6-Hz-NOC-2-Py) D15 NH-(4-Hz-NOC-Ph) D47 NHCHz-(6-Mez-NOC-2-Py) D15 NH-(4-Hz-NOC-Ph) D47 NHCHz-(6-Mez-NOC-2-Py) D16 NH-(CHz)-OMe D48 NHCHz-(6-Mez-NOC-2-Py) D17 NH-(CHz)-OMe D49 NHCHz-(6-Mez-Py) D17 NH-(CHz)-OH D50 NHCHz-(6-Mez-Py) D18 N(CHz-(Hz-OH)) D50 NHCHz-(6-F-2-Py) D19 NHCHz-(CH(CHz-OH)OH D51 NHCHz-(6-F-2-Py) D19 NHCHz-(CH(CHz-OH)OH D51 NHCHz-(6-F-2-Py) D20 N(Me)CHz-(CHz-OH) D52 NHCHz-(6-F-2-Py) D21 3-HO-pyrr D53 NHCHz-(pyrrazol-2-yl) D22 3-HO-pipe D54 NHCHz-(pyrrazol-2-yl) D23 4-HO-pipe D55 NHCHz-(pyrr	D9	NHCH2-(4-H2NOC-Ph)	D41	NH-(3-Ms-Ph)
D12 NH-(4-HO-Ph) D44 NH-CH ₂ (6-MeO-2-Py) D13 NH-(2-H ₂ NOC-Ph) D45 NH-CH ₂ (6-MeO-2-Py) D14 NH-(3-H ₂ NOC-Ph) D46 NH-CH ₂ (6-Cyano-2-Py) D15 NH-(4-H ₂ NOC-Ph) D47 NH-CH ₂ (6-Me ₂ NOC-2-Py) D16 NH-(CH ₂) ₂ OMe D48 NH-CH ₂ (6-Me ₂ NO-2-Py) D17 NH-(CH ₂) ₂ OH D49 NH-CH ₂ (6-Me ₂ N-2-Py) D18 N(CH ₂ CH ₂ OH) ₂ D50 NH-CH ₂ (6-Me ₂ N-2-Py) D19 NH-CH ₂ CH ₂ OH) ₂ D50 NH-CH ₂ (6-CI-2-Py) D19 NH-CH ₂ CH ₂ OH)OH D51 NH-CH ₂ (6-Me-2-Py) D20 N(Me)CH ₂ CH ₂ OH D52 NH-CH ₂ (6-Me-2-Py) D21 3-HO-pyrr D53 NH-CH ₂ (6-Me-2-Py) D21 3-HO-pyrr D53 NH-CH ₂ (pyriadzine-2-yl) D22 3-HO-pipe D54 NH-CH ₂ (pyriadzine-2-yl) D23 4-HO-pipe D55 NH-CH ₂ (pyrimidine-2-yl) D24 NH-CH ₂ CONH ₂ D57 NH-CH ₂ (Me)CH ₂ OH D25 NH-	D10	NH-(2-HO-Ph)	D42	NHCH ₂ CO-mor
D13 NH-(2-H2NOC-Ph) D45 NHCH2-(6-H2NOC-2-Py) D14 NH-(3-H2NOC-Ph) D46 NHCH2-(6-H2NOC-2-Py) D15 NH-(4-H2NOC-Ph) D47 NHCH2-(6-Me2NOC-2-Py) D16 NH-(CH2)20Me D48 NHCH2-(6-Me2NOC-2-Py) D17 NH-(CH2)30H D49 NHCH2-(6-Me2N-2-Py) D18 N(CH2-CH20H) D50 NHCH2-(6-Me2N-2-Py) D19 NHCH2-(CH20H) D51 NHCH2-(6-Me-2-Py) D19 NHCH2-(CH20H) D51 NHCH2-(6-Me-2-Py) D20 N(Me)CH2-(CH20H) D52 NHCH2-(6-Me-2-Py) D21 3-HO-pyrr D53 NHCH2-(6-Me-2-Py) D21 3-HO-pipe D54 NHCH2-(pyriazoi-2-yl) D22 3-HO-pipe D54 NHCH2-(pyriazoi-2-yl) D23 4-HO-pipe D55 NHCH2-(pyrimidine-2-yl) D24 NHCH2-CONHMe D56 N(CH2-CONH2)(CH2)OH D25 NHCH2-CONHMe D57 NHCH(Me)CH2-OH D26 N(Me)CH2-CONHMe D59 NHC(Me)CH2-COH <	D11	NH-(3-HO-Ph)	D43	NHCH ₂ (6-HO-2-Py)
D14 NH-(3-H ₂ NOC-Ph) D46 NHCH ₂ (6-cyano-2-Py) D15 NH-(4H ₂ NOC-Ph) D47 NHCH ₂ (6-Me ₂ NOC-2-Py) D16 NH-(CH ₂)OMe D48 NHCH ₂ (6-H ₂ N-2-Py) D17 NH-(CH ₂)OH D49 NHCH ₂ (6-Me ₂ N-2-Py) D18 N(CH ₂ CH ₂ OH) D50 NHCH ₂ (6-Me ₂ N-2-Py) D19 NHCH ₂ CH(CH ₂ OH)OH D51 NHCH ₂ (6-F-2-Py) D20 N(Me)CH ₂ CH ₂ OH D52 NHCH ₂ (6-Me-2-Py) D20 N(Me)CH ₂ CH ₂ OH D53 NHCH ₂ (6-Me-2-Py) D21 3-HO-pyrr D53 NHCH ₂ (6-Me-2-Py) D22 3-HO-pipe D54 NHCH ₂ (pyrazol-2-yl) D23 3-HO-pipe D54 NHCH ₂ (pyriadzine-2-yl) D24 NHCH ₂ CONHMe D55 NHCH ₂ (pyrimidine-2-yl) D25 NHCH ₂ CONHMe D56 N(CH ₂ CONH ₂)((CH ₂)OH) D25 NHCH ₂ CONHMe D57 NHCH(Me)CH ₂ OH D26 N(Me)CH ₂ CONHMe D59 NHC(Me)CH ₂ OH D28 N(Me)CH ₂ CONH ₂ <t< td=""><td>D12_</td><td>NH-(4-HO-Ph)</td><td>D44</td><td>NHCH₂-(6-MeO-2-Py)</td></t<>	D12_	NH-(4-HO-Ph)	D44	NHCH ₂ -(6-MeO-2-Py)
D15 NH-(4H2NOC-Ph) D47 NHCH2 (6-Me2NOC-2-Py) D16 NH-(CH2)20Me D48 NHCH2 (6-Me2NOC-2-Py) D17 NH-(CH2)20H D49 NHCH2 (6-Me2N-2-Py) D18 N(CH2CH20H2) D50 NHCH2 (6-F-2-Py) D19 NHCH2 (CH20H20H D51 NHCH2 (6-CI-2-Py) D20 N(Me)CH2 (CH20H D52 NHCH2 (6-Me-2-Py) D20 N(Me)CH2 (CH20H D53 NHCH2 (pyrazol-2-yl) D21 3-HO-pyrr D53 NHCH2 (pyridazine-2-yl) D22 3-HO-pipe D54 NHCH2 (pyrindizine-2-yl) D23 4-HO-pipe D55 NHCH2 (pyrindizine-2-yl) D24 NHCH2 (ONHMe D56 N(CH2 (ONH2) (CH2)20H) D25 NHCH2 (ONHMe) D57 NHCH(Me)CH20H D26 N(Me)CH2 (ONHMe) D58 NHCH2 (Me)CH20H D27 N(Me)CH2 (ONHMe) D59 NHC(Me)CH20H D28 N(Me)CH2 (ONHe2 D60 NHCH2 (Me)AH D29 NH(CH20NH2) D61 3-oxo-pipa	D13	NH-(2-H ₂ NOC-Ph)	D45	NHCH ₂ -(6-H ₂ NOC-2-Py)
D16 NH-(CH ₂)-OMe D48 NHCH ₂ (6-H ₂ N-2-Py) D17 NH-(CH ₂)-OH D49 NHCH ₂ (6-Me ₂ N-2-Py) D18 N(CH ₂ CH ₂ OH) ₂ D50 NHCH ₂ (6-F-2-Py) D19 NHCH ₂ CH(CH ₂ OH)OH D51 NHCH ₂ (6-CI-2-Py) D20 N(Me)CH ₂ CH ₂ OH D52 NHCH ₂ (6-Me-2-Py) D21 3-HO-pyrr D53 NHCH ₂ (pyrazol-2-yl) D22 3-HO-pipe D54 NHCH ₂ (pyrindaine-2-yl) D23 4-HO-pipe D55 NHCH ₂ (pyrindiine-2-yl) D24 NHCH ₂ CONHMe D56 N(CH ₂ CONH ₂)(CH ₂)OH D25 NHCH ₂ CONMe ₂ D57 NHCH(Me)CH ₂ OH D26 N(Me)CH ₂ CONH ₂ D58 NHCH ₂ CH(Me)OH D27 N(Me)CH ₂ CONHMe D59 NHC(Me) ₂ CH ₂ OH D28 N(Me)CH ₂ CONH ₂ D60 NHCH ₂ C(Me) ₂ OH D29 NH(CH ₂ CONH ₂) D61 3-oxo-pipa D30 N(CH ₂ CONH ₂) D62 NHCH ₂ CO-(3-H ₂ NOC-pipe)	D14	NH-(3-H ₂ NOC-Ph)	D46	NHCH ₂ -(6-cyano-2-Py)
D17 NH-(CH ₂);OH D49 NHCH ₂ (6-Me ₂ N-2-Py) D18 N(CH ₂ CH ₂ OH) ₂ D50 NHCH ₂ (6-Me ₂ N-2-Py) D19 NHCH ₂ CH(CH ₂ OH)OH D51 NHCH ₂ (6-CI-2-Py) D20 N(Me)CH ₂ CH ₂ OH D52 NHCH ₂ (6-Me-2-Py) D21 3-HO-pyrr D53 NHCH ₂ (pyrazol-2-yl) D22 3-HO-pipe D54 NHCH ₂ (pyrindazine-2-yl) D23 4-HO-pipe D55 NHCH ₂ (pyrindidine-2-yl) D24 NHCH ₂ CONHMe D56 N(CH ₂ CONH ₂)(CH ₂)OH D25 NHCH ₂ CONMe ₂ D57 NHCH(Me)CH ₂ OH D26 N(Me)CH ₂ CONH ₂ D58 NHCH ₂ CH(Me)OH D27 N(Me)CH ₂ CONHMe D59 NHC(Me) ₂ CH ₂ OH D28 N(Me)CH ₂ CONMe ₂ D60 NHCH ₂ C(Me) ₂ OH D29 NH(CH ₂)CONH ₂ D61 3-oxo-pipa D30 N(CH ₂ CONH ₂) ₂ D62 NHCH ₂ CO-(3-H ₂ NOC-pipe)	D15	NH-(4-H ₂ NOC-Ph)	D47	NHCH ₂ -(6-Me ₂ NOC-2-Py)
D18 N(CH ₂ CH ₂ OH) ₂ D50 NHCH ₂ (6-F-2-Py) D19 NHCH ₂ CH(CH ₂ OH)OH D51 NHCH ₂ (6-Cl-2-Py) D20 N(Me)CH ₂ CH ₂ OH D52 NHCH ₂ (6-Me-2-Py) D21 3-HO-pyrr D53 NHCH ₂ (pyrazol-2-yl) D22 3-HO-pipe D54 NHCH ₂ (pyrindazine-2-yl) D23 4-HO-pipe D55 NHCH ₂ (pyrimidine-2-yl) D24 NHCH ₂ CONHMe D56 N(CH ₂ CONH ₂)(CH ₂)OH D25 NHCH ₂ CONMe ₂ D57 NHCH(Me)CH ₂ OH D26 N(Me)CH ₂ CONH ₂ D58 NHCH ₂ CH(Me)OH D27 N(Me)CH ₂ CONHMe D59 NHC(Me) ₂ CH ₂ OH D28 N(Me)CH ₂ CONMe ₂ D60 NHCH ₂ C(Me) ₂ OH D29 NH(CH ₂) ₂ CONH ₂ D61 3-oxo-pipa D30 N(CH ₂ CONH ₂) ₂ D62 NHCH ₂ CO-(3-H ₂ NOC-pipe)	D16	NH-(CH ₂) ₂ OMe	D48	NHCH ₂ -(6-H ₂ N-2-Py)
D19 NHCH2CH(CH2OH)OH D51 NHCH2(6-Cl-2-Py) D20 N(Me)CH2CH2OH D52 NHCH2(6-Me-2-Py) D21 3-HO-pyrr D53 NHCH2(pyrazol-2-yl) D22 3-HO-pipe D54 NHCH2(pyridazine-2-yl) D23 4-HO-pipe D55 NHCH2(pyrimidine-2-yl) D24 NHCH2CONIMe D56 N(CH2CONH2)((CH2)QH) D25 NHCH2CONIMe2 D57 NHCH(Me)CH2OH D26 N(Me)CH2CONIH2 D58 NHCH2CH(Me)OH D27 N(Me)CH2CONIHME D59 NHC(Me)2CH2OH D28 N(Me)CH2CONIH2 D60 NHCH2C(Me)2OH D29 NH(CH2)2CONIH2 D61 3-oxo-pipa D30 N(CH2CONIH2)2 D62 NHCH2CO-(3-H2NOC-pipe)	D17	NH-(CH ₂) ₅ OH	D49	NHCH _z -(6-Me ₂ N-2-Py)
D20 N(Me)CH ₂ CH ₂ OH D52 NHCH ₂ (6-Me-2-Py) D21 3-HO-pyrr D53 NHCH ₂ (pyrazol-2-yl) D22 3-HO-pipe D54 NHCH ₂ (pyriadzine-2-yl) D23 4-HO-pipe D55 NHCH ₂ (pyrimidine-2-yl) D24 NHCH ₂ CONHMe D56 N(CH ₂ CONH ₂)((CH ₂) ₂ OH) D25 NHCH ₂ CONMe ₂ D57 NHCH(Me)CH ₂ OH D26 N(Me)CH ₂ CONH ₂ D58 NHCH ₂ CH(Me)OH D27 N(Me)CH ₂ CONHMe D59 NHC(Me) ₂ CH ₂ OH D28 N(Me)CH ₂ CONMe ₂ D60 NHCH ₂ C(Me) ₂ OH D29 NH(CH ₂) ₂ CONH ₂ D61 3-oxo-pipa D30 N(CH ₂ CONH ₂) ₂ D62 NHCH ₂ CO(3-H ₂ NOC-pipe)	D18	N(CH ₂ CH ₂ OH) ₂	D50	NHCH ₂ (6-F-2-Py)
D21 3-HO-pyrr D53 NHCH ₂ (pyrazol-2-yl) D22 3-HO-pipe D54 NHCH ₂ (pyridazine-2-yl) D23 4-HO-pipe D55 NHCH ₂ (pyrimidine-2-yl) D24 NHCH ₂ CONHMe D56 N(CH ₂ CONH ₂)(CH ₂)OH) D25 NHCH ₂ CONMe ₂ D57 NHCH(Me)CH ₂ OH D26 N(Me)CH ₂ CONH ₂ D58 NHCH ₂ CH(Me)OH D27 N(Me)CH ₂ CONHMe D59 NHC(Me) ₂ CH ₂ OH D28 N(Me)CH ₂ CONMe ₂ D60 NHCH ₂ C(Me) ₂ OH D29 NH(CH ₂) ₂ CONH ₂ D61 3-oxo-pipa D30 N(CH ₂ CONH ₂) ₂ D62 NHCH ₂ CO-(3-H ₂ NOC-pipe)	D19	NHCH,CH(CH,OH)OH	D51	NHCH ₂ -(6-Cl-2-Py)
D22 3-HO-pipe D54 NHCH ₂ (pyridazine-2-yl) D23 4-HO-pipe D55 NHCH ₂ (pyrimidine-2-yl) D24 NHCH ₂ CONHMe D56 N(CH ₂ CONH ₂)((CH ₂) ₂ OH) D25 NHCH ₂ CONMe ₂ D57 NHCH(Me)CH ₂ OH D26 N(Me)CH ₂ CONH ₂ D58 NHCH ₂ CH(Me)OH D27 N(Me)CH ₂ CONHMe D59 NHC(Me) ₂ CH ₂ OH D28 N(Me)CH ₂ CONMe ₂ D60 NHCH ₂ C(Me) ₂ OH D29 NH(CH ₂) ₂ CONH ₂ D61 3-oxo-pipa D30 N(CH ₂ CONH ₂) ₂ D62 NHCH ₂ CO-(3-H ₂ NOC-pipe)	D20	N(Me)CH ₂ CH ₂ OH	D52	NHCH ₂ (6-Me-2-Py)
D23 4-HO-pipe D55 NHCH ₂ (pyrimidine-2-yl) D24 NHCH ₂ CONHMe D56 N(CH ₂ CONH ₂)((CH ₂) ₂ OH) D25 NHCH ₂ CONMe ₂ D57 NHCH(Me)CH ₂ OH D26 N(Me)CH ₂ CONH ₂ D58 NHCH ₂ CH(Me)OH D27 N(Me)CH ₂ CONHMe D59 NHC(Me) ₂ CH ₂ OH D28 N(Me)CH ₂ CONMe ₂ D60 NHCH ₂ C(Me) ₂ OH D29 NH(CH ₂) ₂ CONH ₂ D61 3-oxo-pipa D30 N(CH ₂ CONH ₂) ₂ D62 NHCH ₂ CO-(3-H ₂ NOC-pipe)	D21	3-НО-руп	D53	NHCH ₂ -(pyrazol-2-yl)
D24 NHCH ₂ CONHMe D56 N(CH ₂ CONH ₂)(CH ₂) ₂ OH) D25 NHCH ₂ CONMe ₂ D57 NHCH(Me)CH ₂ OH D26 N(Me)CH ₂ CONH ₂ D58 NHCH ₂ CH(Me)OH D27 N(Me)CH ₂ CONHMe D59 NHC(Me) ₂ CH ₂ OH D28 N(Me)CH ₂ CONMe ₂ D60 NHCH ₂ C(Me) ₂ OH D29 NH(CH ₂) ₂ CONH ₂ D61 3-oxo-pipa D30 N(CH ₂ CONH ₂) ₂ D62 NHCH ₂ CO-(3-H ₂ NOC-pipe)	D22	3-HO-pipe	D54	
D25 NHCH ₂ CONMe ₂ D57 NHCH(Me)CH ₂ OH D26 N(Me)CH ₂ CONH ₂ D58 NHCH ₂ CH(Me)OH D27 N(Me)CH ₂ CONHMe D59 NHC(Me) ₂ CH ₂ OH D28 N(Me)CH ₂ CONMe ₂ D60 NHCH ₂ C(Me) ₂ OH D29 NH(CH ₂) ₂ CONH ₂ D61 3-oxo-pipa D30 N(CH ₂ CONH ₂) ₂ D62 NHCH ₂ CO-(3-H ₂ NOC-pipe)	D23	4-HO-pipe	D55	
D26 N(Me)CH ₂ CONH ₂ D58 NHCH ₂ CH(Me)OH D27 N(Me)CH ₂ CONHMe D59 NHC(Me) ₂ CH ₂ OH D28 N(Me)CH ₂ CONMe ₂ D60 NHCH ₂ C(Me) ₂ OH D29 NH(CH ₂) ₂ CONH ₂ D61 3-oxo-pipa D30 N(CH ₂ CONH ₂) ₂ D62 NHCH ₂ CO-(3-H ₂ NOC-pipe)	D24	NHCH ₂ CONHMe	D56	
D27 N(Me)CH ₂ CONHMe D59 NHC(Me) ₂ CH ₂ OH D28 N(Me)CH ₂ CONMe ₂ D60 NHCH ₂ C(Me) ₂ OH D29 NH(CH ₂) ₂ CONH ₂ D61 3-oxo-pipa D30 N(CH ₂ CONH ₂) ₂ D62 NHCH ₂ CO-(3-H ₂ NOC-pipe)	D25	NHCH2CONMe2	D57	NHCH(Me)CH ₂ OH
D28 N(Me)CH ₂ CONMe ₂ D60 NHCH ₂ C(Me) ₂ OH D29 NH(CH ₂) ₂ CONH ₂ D61 3-oxo-pipa D30 N(CH ₂ CONH ₂) ₂ D62 NHCH ₂ CO-(3-H ₂ NOC-pipe)	D26	N(Me)CH2CONH2	D58	NHCH2CH(Me)OH
D29 NH(CH ₂)CONH ₂ D61 3-oxo-pipa D30 N(CH ₂ CONH ₂) D62 NHCH ₂ CO-(3-H ₂ NOC-pipe)	D27	N(Me)CH2CONHMe	D59	NHC(Me) ₂ CH ₂ OH
D30 N(CH ₂ CONH ₂) ₂ D62 NHCH ₂ CO-(3-H ₂ NOC-pipe)	D28	N(Me)CH2CONMe2	D60	NHCH ₂ C(Me) ₂ OH
	D29	NH(CH2)2CONH2	D61	3-охо-ріра
	D30	N(CH2CONH2)2	D62	NHCH ₂ CO-(3-H ₂ NOC-pipe)
D31 NHCH(CONH ₂)CH ₂ OH D63 NHCH ₂ CO(4-H ₂ NOC-pipe)	D31	NHCH(CONH ₂)CH ₂ OH	D63	NHCH ₂ CO-(4-H ₂ NOC-pipe)
D32 3-H ₂ NOC-pipe D64 NHCH(CH ₂ OH) ₂	D32	3-H ₂ NOC-pipe	D64	

(Table 32)

No	R ^{IA}	No	R ^{IA}
E1	NHCH ₂ Ph	E20	NHCH ₂ (6-H ₂ NOC-2-Py)
E2	NHCH ₂ -(2-HO-Ph)	E21	NHCH ₂ -(6-cyano-2-Py)
E3	NHCH ₂ -(2-H ₂ NOC-Ph)	E22	NHCH ₂ -(6-Me ₂ NOC-2-Py)
E4	NHCH2-(3-H2NOC-Ph)	E23	NHCH ₂ -(6-H ₂ N-2-Py)
E5	NHCH ₂ (4-H ₂ NOC-Ph)	E24	NHCH ₂ -(6-Me ₂ N-2-Py)
E6	N(Me)CH ₂ CH ₂ OH	E25	NHCH ₂ -(6-F-2-Py)
E7	4-HO-pipe	E26	NHCH ₂ -(6-Cl-2-Py)
E8	N(Me)CH2CONH2	E27	NHCH ₂ (6-Me-2-Py)
E9	N(Me)CH ₂ CONHMe	E28	NHCH ₂ (pyrazol-2-yl)
E10	N(Me)CH ₂ CONMe ₂	E29	NHCH ₂ (pyridazine-2-yl)
E11	NHCH(CONH2)CH2OH	E30	NHCH ₂ -(pyrimidine-2-yl)
E12	NHCH ₂ CO-(3-HO-pipe)	E31	N(CH ₂ CONH ₂)((CH ₂) ₂ OH)
E13	NH-(3-Ac-Ph)	E32	NHCH(Me)CH2OH
E14	NH-(3-MeHNOC-Ph)	E33	NHCH ₂ CH(Me)OH
E15	NHCH ₂ -(4-H ₂ NO ₂ S-Ph)	E34	NHCH ₂ C(Me) ₂ OH
E16	NH-(3-Ms-Ph)	E35	NHCH ₂ CO-(3-H ₂ NOC-pipe)
E17_	NHCH ₂ CO-mor	E36	NHCH ₂ CO-(4-H ₂ NOC-pipe)
E18	NHCH ₂ (6-HO-2-Py)	E37	NHCH(CH2OH)2
E19	NHCH ₂ (6-MeO-2-Py)		

(Table 33)

No	R ^{IA}	No	R ^{IA}
F1	NHCH ₂ (2-Py)	F33	4-H ₂ NOC-pipe
F2	NHPh	F34	NHCH2CO-pyrr
F3	NHCH ₂ Ph	F35	NHCH ₂ CO-(3-HO-pyrr)
F4	NHCH ₂ -(2-HO-Ph)	F36	NHCH ₂ CO-(3-HO-pipe)
F5	NHCH ₂ (3-HO-Ph)	F37	NHCH ₂ CO-(4-HO-pipe)
F6	NHCH-(4-HO-Ph)	F38	NH-(3-Ac-Ph)
F7	NHCH ₂ -(2-H ₂ NOC-Ph)	F39	NH-(3-MeHNOC-Ph)
F8	NHCH ₂ (3-H ₂ NOC-Ph)	F40	NHCH ₂ (4-H ₂ NO ₂ S-Ph)
F9	NHCH ₂ -(4-H ₂ NOC-Ph)	F41	NH-(3-Ms-Ph)
F10	NH-(2-HO-Ph)	F42	NHCH ₂ CO-mor
F11	NH-(3-HO-Ph)	F43	NHCH ₂ -(6-HO-2-Py)
F12	NH-(4-HO-Ph)	F44	NHCH ₂ -(6-MeO-2-Py)
F13	NH-(2-H ₂ NOC-Ph)	F45	NHCH ₂ (6-H ₂ NOC-2-Py)
F14	NH-(3-H ₂ NOC-Ph)	F46	NHCH ₂ (6-cyano-2-Py)
F15	NH-(4-H ₂ NOC-Ph)	F47	NHCH ₂ -(6-Me ₂ NOC-2-Py)
F16	NH-(CH ₂) ₂ OMe	F48	NHCH ₂ (6-H ₂ N-2-Py)
F17	NH-(CH ₂) ₃ OH	F49	NHCH ₂ -(6-Me ₂ N-2-Py)
F18	N(CH ₂ CH ₂ OH) ₂	F50	NHCH ₂ (6-F-2-Py)
F19	NHCH2CH(CH2OH)OH	F51	NHCH ₂ (6-Cl-2-Py)
F20	N(Me)CH2CH2OH	F52	NHCH ₂ -(6-Me-2-Py)
F21	3-НО-рул	F53	NHCH ₂ -(pyrazol-2-yl)
F22	3-HO-pipe	F54	NHCH ₂ (pyridazine-2-yl)
F23	4-HO-pipe	F55	NHCH ₂ -(pyrimidine-2-yl)
F24	NHCH ₂ CONHMe	F56	N(CH2CONH2)((CH2)2OH)
F25	NHCH ₂ CONMe ₂	F57	NHCH(Me)CH ₂ OH
F26	N(Me)CH2CONH2	F58	NHCH2CH(Me)OH
F27	N(Me)CH2CONHMe	F59	NHC(Me) ₂ CH ₂ OH
F28	N(Me)CH2CONMe2	F60	NHCH ₂ C(Me) ₂ OH
F29	NH(CH ₂) ₂ CONH ₂	F61	3-охо-ріра
F30	N(CH2CONH2)2	F62	NHCH ₂ CO-(3-H ₂ NOC-pipe)
F31	NHCH(CONH2)CH2OH	F63	NHCH ₂ CO-(4-H ₂ NOC-pipe)
F32	3-H ₂ NOC-pipe	F64	NHCH(CH2OH)2

(Table 34)

No	R ^{IA}	No	R ^{IA}
G1	NHCH ₂ -(2-Py)	G32	NHCH ₂ CO-pyrr
G2	NHPh	G33	NHCH ₂ CO-(3-HO-pyrr)
G3	NHCH₂Ph	G34	NHCH ₂ CO-(3-HO-pipe)
G4	NHCH ₂ -(2-HO-Ph)	G35	NHCH ₂ CO-(4-HO-pipe)
G5	NHCH ₂ -(3-HO-Ph)	G36	NH-(3-Ac-Ph)
G6	NHCH ₂ -(4-HO-Ph)	G37	NH-(3-MeHNOC-Ph)
G7	NHCH ₂ -(2-H ₂ NOC-Ph)	G38	NHCH ₂ (4-H ₂ NO ₂ S-Ph)
G8	NHCH ₂ -(3-H ₂ NOC-Ph)	G39	NH-(3-Ms-Ph)
G9	NHCH ₂ -(4-H ₂ NOC-Ph)	G40	NHCH ₂ CO-mor
G10	NH-(2-HO-Ph)	G41	NHCH ₂ (6-HO-2-Py)
G11	NH-(3-HO-Ph)	G42	NHCH ₂ (6-MeO-2-Py)
G12	NH-(4-HO-Ph)	G43	NHCH ₂ (6-H ₂ NOC-2-Py)
G13	NH-(2-H ₂ NOC-Ph)	G44	NHCH ₂ -(6-cyano-2-Py)
G14	NH-(4-H ₂ NOC-Ph)	G45	NHCH ₂ -(6-Me ₂ NOC-2-Py)
G15	NH-(CH ₂) ₂ OMe	G46	NHCH ₂ -(6-H ₂ N-2-Py)
G16	NH-(CH ₂)₃OH	G47	NHCH ₂ (6-Me ₂ N-2-Py)
G17	N(CH ₂ CH ₂ OH) ₂	G48	NHCH ₂ -(6-F-2-Py)
G18	NHCH2CH(CH2OH)OH	G49	NHCH ₂ (6-Cl-2-Py)
G19	N(Me)CH ₂ CH ₂ OH	G50	NHCH ₂ (6-Me-2-Py)
G20	3-HO-pyı r	G51	NHCH ₂ -(pyrazol-2-yl)
G21_	3-HO-pipe	G52	NHCH ₂ (pyridazine-2-yl)
G22	4-HO-pipe	G53	NHCH ₂ -(pyrimidine-2-yl)
G23	NHCH2CONHMe	G54	N(CH2CONH2)((CH2)2OH)
G24	NHCH ₂ CONMe ₂	G55	NHCH(Me)CH ₂ OH
G25	N(Me)CH2CONH2	G56	NHCH ₂ CH(Me)OH
G26	N(Me)CH2CONHMe	G57	NHC(Me),CH2OH
G27	N(Me)CH2CONMe2	G58	NHCH ₂ C(Me) ₂ OH
G28	N(CH2CONH2)2	G59	3-охо-ріра
G29	NHCH(CONH2)CH2OH	G60	NHCH ₂ CO-(3-H ₂ NOC-pipe)
G30	3-H ₂ NOC-pipe	G61	NHCH ₂ CO-(4-H ₂ NOC-pipe)
G31	4-H₂NOC-pipe	G62	NHCH(CH2OH)2

(Table 35)

No	R ^{1A}	No	R ^{IA}
H1	NHCH ₂ -(2-Py)	H33	4-H ₂ NOC-pipe
H2	NHPh	H34	NHCH ₂ CO-pyrr
H3	NHCH ₂ Ph	H35	NHCH ₂ CO-(3-HO-pyrr)
H4	NHCH ₂ -(2-HO-Ph)	H36	NHCH ₂ CO-(3-HO-pipe)
H5_	NHCH ₂ -(3-HO-Ph)	H37_	NHCH ₂ CO-(4-HO-pipe)
Н6	NHCH ₂ -(4-HO-Ph)	H38	NH-(3-Ac-Ph)
H7_	NHCH ₂ -(2-H ₂ NOC-Ph)	H39	NH-(3-MeHNOC-Ph)
H8	NHCH ₂ -(3-H ₂ NOC-Ph)	H40	NHCH ₂ -(4-H ₂ NO ₂ S-Ph)
Н9	NHCH ₂ -(4-H ₂ NOC-Ph)	H41	NH-(3-Ms-Ph)
H10	NH-(2-HO-Ph)	H42	NHCH ₂ CO-mor
H11	NH-(3-HO-Ph)	H43	NHCH ₂ (6-HO-2-Py)
H12	NH-(4-HO-Ph)	H44	NHCH ₂ (6-MeO-2-Py)
H13_	NH-(2-H ₂ NOC-Ph)	H45	NHCH ₂ (6-H ₂ NOC-2-Py)
H14	NH-(3-H ₂ NOC-Ph)	H46	NHCH ₂ -(6-cyano-2-Py)
H15	NH-(4-H ₂ NOC-Ph)	H47	NHCH ₂ -(6-Me ₂ NOC-2-Py)
H16	NH-(CH ₂) ₂ OMe	H48	NHCH ₂ -(6-H ₂ N-2-Py)
H17	NH-(CH ₂)3OH	H49	NHCH ₂ -(6-Me ₂ N-2-Py)
H18	N(CH2CH2OH)2	H50	NHCH ₂ (6-F-2-Py)
H19	NHCH2CH(CH2OH)OH	H51	NHCH ₂ -(6-Cl-2-Py)
H20	N(Me)CH ₂ CH ₂ OH	H52	NHCH ₂ -(6-Me-2-Py)
H21	3-НО-руп	H53	NHCH ₂ -(pyrazol-2-yl)
H22	3-HO-pipe	· H54	NHCH ₂ -(pyridazine-2-yl)
H23	4-HO-pipe	H55	NHCH ₂ -(pyrimidine-2-yl)
H24	NHCH₂CONHMe	H56	N(CH ₂ CONH ₂)((CH ₂) ₂ OH)
H25	NHCH2CONMe2	H57	NHCH(Me)CH ₂ OH
H26	N(Me)CH2CONH2	H58	NHCH2CH(Me)OH
H27	N(Me)CH2CONHMe	H59	NHC(Me) ₂ CH ₂ OH
H28	N(Me)CH2CONMe2	H60	NHCH ₂ C(Me) ₂ OH
H29	NH(CH ₂) ₂ CONH ₂	H61	3-охо-ріра
H30	N(CH ₂ CONH ₂) ₂	H62	NHCH ₂ CO-(3-H ₂ NOC-pipe)
H31	NHCH(CONH2)CH2OH	H63	NHCH ₂ CO-(4-H ₂ NOC-pipe)
H32	3-H ₂ NOC-pipe	H64	NHCH(CH2OH)2

(Table 36)

No	R ^{IA}	No	R ^{1A}
I1	NHCH _z (2-Py)	133	4-H ₂ NOC-pipe
12	NHPh	I34	NHCH2CO-pyrr
13	NHCH2Ph	135	NHCH ₂ CO-(3-HO-pyrr)
14	NHCH ₂ -(2-HO-Ph)	136	NHCH ₂ CO-(3-HO-pipe)
I5	NHCH ₂ -(3-HO-Ph)	137	NHCH ₂ CO-(4-HO-pipe)
I6	NHCH ₂ (4-HO-Ph)	138	NH-(3-Ac-Ph)
17	NHCH ₂ -(2-H ₂ NOC-Ph)	139	NH-(3-MeHNOC-Ph)
18	NHCH ₂ -(3-H ₂ NOC-Ph)	I40	NHCH ₂ -(4-H ₂ NO ₂ S-Ph)
19	NHCH2-(4-H2NOC-Ph)	I41	NH-(3-Ms-Ph)
110	NH-(2-HO-Ph)	I42	NHCH ₂ CO-mor
I11	NH-(3-HO-Ph)	I43	NHCH _z -(6-HO-2-Py)
I12	NH-(4-HO-Ph)	I44	NHCH ₂ -(6-MeO-2-Py)
I13	NH-(2-H ₂ NOC-Ph)	I45	NHCH ₂ -(6-H ₂ NOC-2-Py)
I14	NH-(3-H ₂ NOC-Ph)	I46	NHCH ₂ -(6-cyano-2-Py)
I15	NH-(4-H ₂ NOC-Ph)	I47	NHCH ₂ -(6-Me ₂ NOC-2-Py)
I16	NH-(CH ₂) ₂ OMe	I48	NHCH ₂ -(6-H ₂ N-2-Py)
I17	NH-(CH ₂) ₃ OH	I49	NHCH ₂ -(6-Me ₂ N-2-Py)
I18	N(CH2CH2OH)2	150	NHCH ₂ (6-F-2-Py)
I19	NHCH2CH(CH2OH)OH	I 51	NHCH ₂ -(6-Cl-2-Py)
120	N(Me)CH2CH2OH	152	NHCH ₂ -(6-Me-2-Py)
I21	3-НО-рул	I53	NHCH ₂ -(pyrazol-2-yl)
122	3-HO-pipe	154	NHCH ₂ -(pyridazine-2-yl)
I23	4-HO-pipe	I 55	NHCH ₂ -(pyrimidine-2-yl)
I24	NHCH₂CONHMe	I56	N(CH ₂ CONH ₂)((CH ₂) ₂ OH)
125	NHCH2CONMe2	157	NHCH(Me)CH ₂ OH
126	N(Me)CH2CONH2	158	NHCH2CH(Me)OH
127	N(Me)CH2CONHMe	159	NHC(Me) ₂ CH ₂ OH
128	N(Me)CH2CONMe2	I60	NHCH ₂ C(Me) ₂ OH
129	NH(CH2)2CONH2	I61	3-охо-ріра
130	N(CH2CONH2)2	162	NHCH ₂ CO-(3-H ₂ NOC-pipe)
I31	NHCH(CONH2)CH2OH	I63	NHCH ₂ CO-(4-H ₂ NOC-pipe)
132	3-H ₂ NOC-pipe	I64	NHCH(CH2OH)2